



Ref. 1 1 of 3 215634

FINAL DRAFT
SITE INSPECTION REPORT
FLOWEN OIL DELAWARE VALLEY CORP.
CAMDEN, CAMDEN COUNTY, NEW JERSEY
VOLUME 1 OF 3

FIELD INVESTIGATION TEAM ACTIVITIES AT UNCONTROLLED HAZARDOUS SUBSTANCES FACILITIES — ZONE I

NUS CORPORATION SUPERFUND DIVISION

Flowen Oil Delaware Valley Corp. Camden Camden County, New Jersey Cerclis No. NJD980536577

Documents Reviewed

The United States Environmental Protection Agency (USEPA) files and the Flowen Oil Delaware Valley Corp., Camden, New Jersey files were reviewed as part of the Site Inspection Prioritization (SIP) for this site. Documents reviewed included a Preliminary Assessment (PA) performed by the New Jersey Department of Environmental Protection (NJDEP) in 1986 and the Final Draft Site Inspection Report performed by NUS Corporation (NUS) in 1991.

Site Description and History

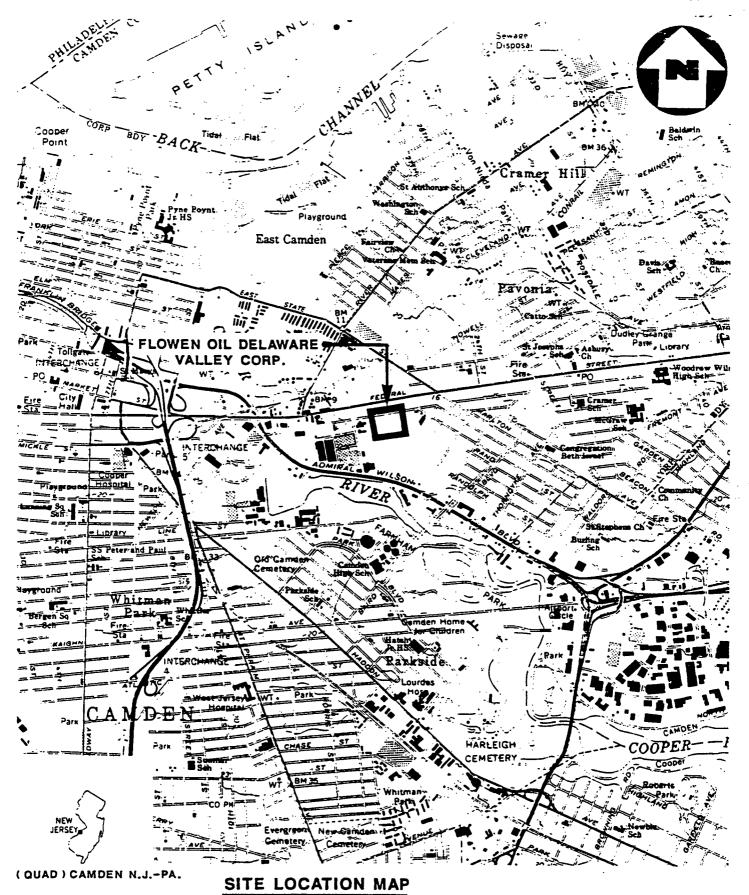
The Flowen Oil Delaware Valley Corp site (a.k.a. Remtech Environmental (NJ) LP) is a waste oil recycling facility located on 2 acres on Carmen Street in Camden, Camden County, New Jersey. Figures 1 and 2 provide a site location map and a site map, respectively. The site is completely paved and surrounded by a 6-inch curb (Ref 1, p. 2 of 3).

The Flowen Oil Delaware Valley (FODV) Corp facility began operations in 1982 and was permitted to accept various waste oil types, bottom sludge and residue from the following: tank cleanouts of residential/commercial fuel oil tanks, gasoline stations, tank testing, tank truck and mobile vessel cleanouts, oil spill cleanups, and the draining, cleaning or disposal of electric transformers. Other wastes that the facility was permitted to accept were dissolved air flotation (DAF) float, slop oil emulsion solids, heat exchanger bundle cleaning sludge, API separator sludge and waste oil bearing liquids having a flash point between 100°F and 140°F. In November 1989, Remtech Environmental Group (Remtech) acquired the facility (Ref 1, p. 2 of 3).

The facility consists of an office, laboratory, process house, boiler house, incoming waste tank farm, finished product tank farm and wastewater treatment system. Effluent from this system is discharged through the City of Camden sewer system to the Camden County Municipal Utilities Authority (CCMUA) main sewage treatment plant. Numerous spills and violations have occurred at the facility including violations for excessive amounts of oil on the ground and for discharge of oil to the City of Camden sewer system (Ref 1, p. 2 of 3).

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FLOWEN OIL DELAWARE VALLEY CORP.

CAMDEN, N.J.

SCALE: 1"= 2000'

FIGURE 1



CARMAN STREET GATE **PARKING** ⊕ //MW2 INCOMING WASTE STORAGE TANKS OFFICE WASTE BLDG. RECEIVING AREA CONTAINMENT CURB **VACANT LOT** DIKE LAB SOLID & SLUDGE WASTE 000 TRAILER PROCESS CHEMICALS **PROCESS** GRASS HOUSE PAVED BOILER LOT HOUSE OO EMPTY CONTAINMENT -DIKE SOLID & SLUDGE WASTE FINISHED 0000 TRAILER PRODUCT TREATMENT **OMW3 TANKS** SYSTEM

SITE MAP

FLOWEN OIL DELAWARE VALLEY CORP., CAMDEN, N.J.

NOT TO SCALE

FIGURE 2



Federal/State Records

On June 10, 1981, the NJDEP issued a Certificate of Approved Registration and Engineering Design Approval to Flowen Oil Delaware Valley, Inc. as a waste oil recycling plant pursuant to the Solid Waste Management Act and Hazardous Waste Regulations (Ref. 2, pp. 1 through 9 of 9).

FODV started operations in early 1982 under interim status. In August 1984, FODV submitted a RCRA Part B application to NJDEP. This application was revised and resubmitted by Remtech Environmental (NJ) LP on April 28, 1989. Remtech is currently operating the FODV facility under an interim management contract. Remtech is in the process of finalizing the purchase of FODV and will be both owner and operator (Ref. 3, pp. 1 through 5 of 9).

In 1986, NJDEP conducted a Preliminary Assessment at the site. The site was given a low priority since NJDEP was taking other regulatory action against the company at that time (Ref 4, p. 2 of 69).

In 1991, NUS Corporation conducted a Site Inspection at the site. The NUS report recommended an expanded site inspection due to potential groundwater contaminants resulting from on-site spills (Ref. 1, p. 3 of 3).

In 1994, Ebasco contacted Remtech to determine the RCRA status at the facility. Remtech informed Ebasco that the facility is a NJDEP Part B permitted TSDF, permit #0408B1HP01 (Ref 5, p. 1 of 1).

Conclusions

Based on the existing information, the following conclusions can be drawn regarding the Flowen Oil Delaware Valley Corp site:

- The Flowen Oil Delaware Valley Corp site is classified as a treatment, storage and disposal (TSD) facility as defined in Section 3004 of RCRA, holds an interim permit to operate as a TSD as required by Section 3005 of RCRA, and it is currently subject to Section 3013 of RCRA.
- The site is also permitted under New Jersey Regulations (permit #0408B1HP01).

Recommendations

The Flowen Oil Delaware Valley Corp site is not eligible for CERCLA actions. The site should be deferred to RCRA.

Prepared by:

John F. Magee Task Leader

Ebasco Services Incorporated

Approved by:

Le Dev Sachdev, PE, Ph.D.

ARCS II Program Manager Ebasco Services Incorporated

Reviewed by

Edgar J Aguado

Site Manager Ebasco Services Incorporated

REFERENCES

- 1. NUS Corporation, Final Draft, Site Inspection Report, Flowen Oil Delaware Valley Corp, Camden, Camden County, New Jersey. August 14, 1991.
- 2. NJDEP, Division of Environmental Quality, Certificate of Approved Registration and Engineering Design Approval, Flowen Oils Delaware Valley, Inc., June 10, 1981.
- 3. Letter from Paul L. Fleischmann, Vice President Remtech Environmental Group, to Thomas Sherman, Acting Chief, NJDEP, Bureau of Hazardous Waste Engineering, April 28, 1989.
- 4. NJDEP, Preliminary Assessment Report, Flowen Oil Delaware Valley Corp., February 14, 1986.
- 5. Telecon Note: Conversation between Christie Webber of Remtech Environmental and Meg Watson of Ebasco, October 14, 1994.

REFERENCE NO. 1

SITE SUMMARY AND RECOMMENDATIONS

The Flowen Oil Delaware Valley Corp. Site is located at 1800 Carman Street in Camden, Camden County, New Jersey. Figures 1 and 2 provide a site location map and a site map, respectively. The sites on a rectangular lot, approximately 2 acres in size. The site terrain is flat and there is a waste oil recycling facility located on it. The site is completely paved, fenced, and surrounded by a 6-inch curb. The site is bordered to the north by Carman Street, to the west by Goodwill Industries, and to the south and east by vacant lots (Ref. Nos. 1, 6, 75).

recycling facility (Ref. Nos. 5, 6, 18, 20, 21, 33, 45-47, 49-53, 55-71, 73, 74). information. In November 1989, Remtech Environmental Group acquired Flowen's waste oil tacility has had numerous air permits, but no evidence of violations were found within background on the ground and others were issued for discharging oil to the City of Camden sewer system. This by Flowen Oils Delaware Valley, Inc. Some of the violations were issued for excessive amounts of oil Delaware River. Numerous spills and violations occurred at the facility while it was under ownership main sewage treatment plant, located in the City of Camden, which eventually discharges to the by the City of Camden sewer system to the Camden County Municipal Utilities Authority (CCMUA) After the wastewater is passed through the on-site wastewater pretreatment system, then it is carried house, incoming waste tank farm, finished product tank farm, and wastewater treatment system. K048, K049, K050, K051, and D001. This facility consisted of an office, lab, process house, boiler having a flash point between 100° and 140° F. These are identified as EPA hazardous waste numbers separator sludge, all byproducts of the petroleum refining industry, and waste oil bearing liquids flotation (DAF) float, slop oil emulsion solids, heat exchanger bundle cleaning sludge, and API X726, X727, and X728. Other wastes which the facility was permitted to accept were dissolved air transformers. These are identified as NJDEP hazardous waste numbers X721, X722, X723, X724, X725, mobile vessel cleanouts, oil spill cleanups, and the draining, cleaning, or disposal of electric cleanouts of residential/commercial fuel oil tanks, gasoline stations, tank testing, tank truck and to accept various waste oil types, bottom sludge, and residue generated from the following: tank Valley, Inc. for a waste oil recycling plant, which began operations in 1982. This facility was permitted Certificate of Approved Registration and Engineering Design Approval to Flowen Oils Delaware On June 10, 1981, the New Jersey Department of Environmental Protection (NJDEP) issued a

On July 6, 1988, Northeastern Analytical Corp. sampled the three monitoring wells on site. The samples were analyzed for volatile organics, petroleum hydrocarbons, total organic carbon, metals, pH, and total dissolved solids. There were no notable concentrations of contaminants detected within

SITE SUMMARY AND RECOMMENDATIONS (CONT'D)

taken (Ref. No. 6). concentrations above the Maximum Contaminant Levels (MCLs). ame ants cannot be attributed to the site because upgradient wells were unable to be nere was an insufficient volume of water in well No. 2 and well No. 1 was inaccessible due era ons. Due to potential groundwater contaminants resulting from on-site spills and the bulation being served by groundwater within the vicinity of the site, a recommendation of ND OD SITE INSPECTION under CERCLA/SARA is given to the Flowen Oil Delaware Valley Corp. f. 185.75-77).

REFERENCE NO. 2



1049 1049

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY SOLID WASTE ADMINISTRATION 32 EAST HANOVER STREET, TRENTON, N.J. 08625

JACK STANTON DIRECTOR

CERTIFICATE OF APPROVED REGISTRATION AND ENGINEERING DESIGN APPROVAL

LINO F. PEREIRA ADMINISTRATOR SOLID WASTE MANAGEMENT

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this registration is hereby issued to:

Flowen Oils Delaware Valley, Inc. Carman Street Camden, NJ

for the purpose of operating a	Waste Oil Recycling Plant
on Lot No.	1
Block No.	1431
in the municipality of	Camden
county	Camden
under Facility Registration No.	6408A
This approval is subject to compli specified herein and all regulation of Environmental Protection.	ance with all conditions ons promulgated by the Department
This approval shall not prejudice Riparian land nor does it permit to or allow to be filled or altered, deemed to be Riparian, Wetlands, splains, or within the Coastal Areazone or allow the discharge of polwithout first acquiring the necess from the Department of Environment Environmental Protection Agency.	the registrant to fill or alter, in any way, lands that are stream encroachment or flood a Facility Review Act (CAFRA) lutants to waters of this State sary grants; permits or approvals

June 10, 1981 DATE

LINO F. PEREIRA ADMINISTRATOR

ADMINISTRATOR

June 10, 1986 SOLID WASTE ADMINISTRATION

June 10, 1986 EXPIRATION DATE Certificate of Approved Registration and Engineering Design Approval (hereinafter referred to as "permit") for Flowen Oils Delaware Valley, Inc., City of Camden, Camden County. 2.F9

This Permit along with the Referenced Engineering Plans and Report, herein specified, shall constitute the sole Registration and Engineering Design Approval for the construction and operation of the Flowen Oils Delaware Valley, Inc., City of Camden, Camden County. Any Registration or Approval previously issued by the Solid Waste Administration or its predecessor agencies is hereby superseded.

The Permit is conditioned upon compliance with and implementation of the following:

1. Duty to comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Solid Waste Management Act and is grounds for enforcement action; for permit termination, revocation, and reissuance, or modification; or for denial of a permit renewal application.

2. Duty to reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

3. Duty to halt or reduce activity

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Proper operation and maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process

controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

6. Permit Actions

This permit may be modified, revoked, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to provide information

The permittee shall furnish to the Administrator, within a reasonable time, any information which the Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Administrator, upon request, copies of records required to be kept by this permit.

9. Inspection and entry

The permittee, by acceptance of this permit, hereby agrees to allow the Commissioner, his or her employees, agents, representatives, or consultants to enter upon the permittee's premises where a regulated facility or activity is or may be located or conducted, or where records must be kept under the conditions of this permit for the purposes of inspection, sampling, copying, or photographing to insure compliance with any condition of this permit and/or Title 7, Chapter 26 of the New Jersey Administrative Code, and/or N.J.S.A. 13:1E-1 et seq., the New Jersey Solid Waste Management Act.

10. Monitoring and records

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

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- (b) The permit see shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Administrator at any time.
- (c) Records of monitoring information shall include:
 - (i) the date, exact place, and time of sampling or measurements;
 - (ii) the individual(s) who performed the sampling or measurements;
 - (iii) the date(s) analyses were performed;
 - (iv) the individual(s) who performed the analyses;
 - (v) the analytical techniques or methods used; and
 - (vi) the results of such analyses.

11. Signatory requirement

All applications, reports, or information submitted to the Administrator shall be signed and certified.

12. Reporting requirements

- (a) For a new hazardous waste management facility, the permittee may not commence treatment, storage, or disposal of hazardous waste; and for a facility being modified the permittee may not treat, store, or dispose of hazardous waste in the modified portion of the facility, until:
 - (i) the permittee has submitted to the Administrator by certified mail or hand delivery a letter signed by the permittee and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit; (see Paragraph 13); or
 - (ii) the Administrator has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or

- (iii) within 15 days of the date of submission of the letter in paragraph 12(a)(i) of this section, the permittee has not received notice from the Administrator of his or her intent to inspect, prior inspection is waived and the permittee may commence treatment, storage, or disposal of hazardous waste.
- (b) Planned changes. The permittee shall give notice to the Administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
- (c) Anticipated noncompliance. The permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (d) Transfers. This permit is not transferable to any person except after notice to the Administrator. The Administrator may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act. In some cases, modification or revocation and reissuance is mandatory.
- (e) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.
- (f) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- Discharge reporting. The permittee shall report any (g) noncompliance which may endanger health or the environment, including any unauthorized discharge of pollutants into the soil, sewer system, surface water, or ambient air. Any information shall be provided orally as soon as the permittee becomes aware of the circumstances by calling (609)292-5560 during business hours or (609) 292-7172 at all other times or if no contact can be made at the first number. The permittee shall report the type of substance and the amount discharged and any other information the Department may require. A written submission shall also be provided within 14 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact

dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurence of the noncompliance and an implementation schedule for undertaking the suggested measures.

- (h) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (b), (e), (f), and (g) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 12(g) of this section.
- (i) Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Administrator, it shall promptly submit such facts or information.

13. Referenced Engineering Plans and Reports

The construction of the facility shall be in accordance with Title 7, Chapter 26 of the New Jersey Administrative Code and the following submission:

- (a) Flowen Oils Delaware Valley, Application for Solid Waste Permit: dated November 12, 1981; signed by Joseph Forte, Jr.
- (b) Flowen Oils Delaware Valley, First Supplement to Application for Solid Waste Permit received March 27, 1981 signed by Joseph Forte, Jr.
- (c) Engineering designs and narrative prepared and sealed by Thomas A. M. Fisher, N.J.P.E. License No. 7113; various dates.

14. Permitted Waste Types

The permittee will accept for processing only waste lubricating oils which come from equipment such as automobile crankcases, truck and bus crankcases, industrial gear boxes, oil from bearing lubrication, oil from industrial hydraulic systems and oils used in metal cutting machine shops.

15. Waste Analysis and Quality Control

(a) The facility must maintain onsite a readily accessible detailed typewritten description (i.e. laboratory analyses) of all incoming waste types including the limits or concentrations. The facility must receive prior to receipt of each waste shipment and maintain

for inspection, validation by the generator that the waste is in conformance with this detailed description. The facility is responsible for the validity of the description.

- (b) Prior to commencing operation of the facility, a waste analysis plan shall be submitted to the Bureau of Hazardous Waste for approval. This plan shall include:
 - (i) The parameters for which each hazardous waste stream will be analyzed and the rationale for the selection of these parameters;
 - (ii) The test methods which will be used to test for these parameters;
 - (iii) The sampling method which will be used to obtain a representative sample of the waste to be analyzed;
 - (iv) The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up-to-date; and
 - (v) For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply.

The plan should provide that at a minimum this analysis shall contain all the information which must be known to treat, store, or dispose of the waste.

The plan should also provide that the analysis shall be repeated as necessary to insure that it is accurate and upto-date. At a minimum, the analysis must be repeated when the owner or operator is notified, or knows or should know, that the process or operation generating the hazardous waste has changed.

⊁16.* <u>Sewer Monitoring</u>

Prior to operation, the permittee shall construct a system to monitor and analyze any discharge to the sewer system.

This system must be constructed and operated in accordance with a plan approved by the Bureau.

17. Fire Fighting and Inspection

An adequate water supply and/or fire fighting equipment must be readily available. Fire fighting procedures must be conspicously displayed.

Fire drills are to be conducted at least twice a <u>year</u>. These drills are to be coordinated with the local fire fighting authority. The facility must notify the Bureau of Hazardous Waste at least <u>forty-eight (48) hours</u> prior to any drills.

18. Inspections and Records

- (a) The permittee must perform daily a site inspection of the facility. All tanks, pipes, valves, and other structural components, etc. are to be checked for indications of structural failure, corresion, leakage, and mechanical failure.
- (b) A written daily log of conditions found and the steps taken to correct the conditions are to be kept on-site. Typewritten duplicates of these logs must be maintained on file and must be supplied to Department representatives upon request.
- (c) A monthly summary of these daily inspections must be submitted to the Bureau of Hazardous Waste within seven days after the end of each month.
- (d) All records prepared in accordance with this approval shall be retained for at least three (3) years.

19. Personnel

The permittee shall submit prior to commencing operation, a comprehensive list of all personnel and their particular function along with their qualifications (include experience, education, and copies of any required licenses to operate facility equipment). An up-to-date list shall be submitted on a semiannual basis.

20. Posting of Notice

The attached notice concerning civil and criminal penalties for illegal disposal of a hazardous waste must be conspicuously posted and available for all employees to read.

21. Plans on-site

One complete set of all engineering "signs which have been submitted a narrative description of the operation of the facility, a facility layout drawing, this Certificate of Approved Registration and Engineering Bosign Approval and such other plans as may be required presuant to this permit shall be kept on-site and shall be available for inspection by representatives of the Department.

22. Closure Plan

The permittee must submit to the Burcan of Mazardous Waste prior to commencing operations, a facility closure plan for its approval. The closure plan must include:

(a) A detailed description on how the facility will_be closed;

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- (b) A description of possible uses for the land after closure; and
- (c) The estimated time required for the completion of closure.

The closure plan to be approved by the Bureau must, at a minimum, provide for:

- (a) The removal of all hazardous waste from the facility within 90 days after termination of operations.
- (b) The completion of closure in one year or less from the termination of operations unless a longer period is specifically authorized by the Bureau.
- (c) Proper disposal or decontamination of all equipment used either in the operation of the facility or the closure process.
- (d) Such other terms, conditions, or restrictions the Bureau may require to insure that humans or animal life do not come into contact with hazardous waste or its constituents and that unauthorized discharges of pollutants onto or into the lands, water or air of this state do not occur.

23. Residue Disposal

The permittee shall, prior to commencing operation, submit to the Bureau the names and locations of the facilities intended for disposal of sludges and residues resulting from the facility's operations.

24. Drum Storage

Acceptance and/or storage of drums at this facility is not permitted without prior written authorization by the Bureau of Hazardous Waste.

25. Air Pollution Control

The facility must obtain all necessary permits and comply with all applicable Rules and Regulations of the Bureau of Air Pollution Control, Title 7, Chapter 27 of the New Jersey Administrative Code.

26. Solid and Hazardous Waste Regulations

The permittee shall comply with each of the applicable requirements specified in Title 7, Chapter 26 of the New Jersey Administrative Code, Rules of the Solid Waste Administration.

REFERENCE NO. 3

REMTECH ENVIRONMENTAL GROUP

April 28, 1989

Mr. Thomas Sherman
Acting Chief
Bureau of Hazardous Waste Engineering
State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
401 East State Street
CN 028
Trenton, New Jersey 08625-0028

Re: Reorganization of Part B
Permit Application, Flowen Oil Delaware Valley Inc.
(FODV) Camden, EPA ID # NJD 980536577

Dear Mr. Sherman:

Submitted with this cover letter are ten (10) complete copies of the reorganized Part B Application, including a revised Part A Application, revised to conform with the Part B. Each complete copy consists of two (2) volumes, labeled as "A" and "B".

This revised permit application is submitted per your letter dated January 31, 1989, that approved a ninety (90) day period for REMTECH Environmental (NJ) LP to reorganize the previous submissions.

Thank you for the opportunity to complete this reorganization.

Very truly yours.

Paul L. Fleischmann Vice President REMTECH Environmental (NJ) LP

> 1800 Carman Street Camden, New Jersey 08105 (609) 365-5544 FAX (609) 365-0801

SECTION A

INTRODUCTION AND GENERAL COMMENTS

INTRODUCTION AND GENERAL COMMENTS

The facility for which this Part A and Part B permit submittal is being made, was originally built in 1981 and started operations in early 1982 as Flowen Oil Delaware Valley, Inc. (FODV). FODV has owned and operated the facility under interim status since that time. The initial Part B permit application was filed on August 22, 1984.

This current submittal is being made by Remtech Environmental (NJ) LP. (herein after referred to as Remtech Environmental). Remtech Environmental is currently operating the FODV facility under a interim management contract. The required A-901 disclosure statements have been submitted to the State of NJ and upon final approval. Remtech Environmental will finalize the purchase of FODV and become both owner and operator.

The designation "Remtech Environmental" is used in place of "FODV" throughout the application. As stated, FODV has previously filed the required permit applications and is now operating under interim status. The previous permit applications were found deficient by NJ DEP and additional information responding to the deficiencies was submitted by FODV. Remtech Environmental found that the supplemental information submitted to NJ DEP required to be re-organized. This application is submitted to provide such re-organization.

Furthermore, the facility has previously lacked the financial resources to fully implement routine maintenance, repairs and process improvements that were needed to meet the ever increasing regulatory requirements promulgated since the plant was built. Remtech Environmental has invested in the facility to allow completion of these improvements. Therefore, this reorganized permit application also provides information on these improvements, both completed and proposed.

The facility located in Camden, NJ, is described in detail in Section D of this application. In brief, the facility is an waste oil treatment facility, constructed to be above the 100 year flood plain. on approximately 1 acre. The entire facility is on concrete with 6 inch curbs to allow the facility to be self containing in the event of a spill. Section D provides a full description.

The facility, as built in 1981, was designed to separate oil from water and/or sediment. The original process was based on storage in tanks, heating, filtration, pH adjustment and centrifuging. Economic processing was really optimum only when incoming oil wastes had relatively limited amounts of water and sediments.

The facility designers could not foresee both the wide range of oil wastes that ultimately would be regulated by the State of NJ, and the economic downturn in prices for recycled oil as a finished product. Now, the large number of oil waste materials regulated by the State of NJ has resulted in an increased customer demand for oil waste treatment services that can handle a diverse range of oil wastes including materials with much higher levels of water and sediment. To this end, the facility has been under improvement by increasing its capability to process higher sediment, higher water level waste materials. This part B submittal includes a detailed process description in Section F, along with the final construction schedule for these improvements.

An example of a facility upgrade includes the addition of a solid bowl centrifuge that allows the facility to economically remove much higher levels of sediment. A second solid bowl centrifuge is also included in the process description.

An ultra-filtration unit has been added to pre-treat water prior to discharge to the sewer system. This is in agreement with the requirements of the discharge permit held under the authority of the Camden County Municipal Utilities Authority.

To improve the ability to separate oil from water, an emulsion breaking system is included in the application. It is important to note, all of the process design improvements only increase the ability of the facility to efficiently treat materials utilizing processes that were included in the scope of the original design; i.e.— heating, separation of oil, pH adjustment, removal of water, centrifuging to remove sediment, and filtration to remove solids. Therefore, the process improvements are consistent with the Treatment Operations described in the facility interim status permit.

The facility is approved to handle NJ DEP hazardous waste codes X721 to X728. The physically and chemically similar oil wastes identified by USEPA hazardous waste codes K048 to K059 can be handled by the treatment process of the facility.

Some waste materials that have petroleum oil fraction as a component will demonstrate a flash point less than 140 F. If these liquid oily wastes do not meet the source generating definitions listed of X721 - X728 or K048 - K059, then the waste would be correctly classified as D001. While the material is still the same oily waste, the facility would not be able to accept the D001 waste due to permit definitions, even though the facility could accept the waste if the waste were able to be classified legally as an X code or K code. The facility is designed and operated to safely handle materials with flash points less than 140 F but greater than 100 F. This permit application requests the inclusion of limited acceptance of D001 wastes oily liquid to allow acceptance of oily wastes that can be handled but would otherwise need to be rejected due to classification as D001.

One major issue associated with the acceptance of both non-RCRA hazardous wastes (X-codes) and RCRA hazardous wastes (D001, K048-K059) is the need to segregate the by-products. The application has been amended to include this required segregation.

The Waste Characteristics and Waste Analysis Plan (Section E) and Process Information and Engineering Design (Section F) have been updated to clearly show that wastes that are RCRA hazardous will be handled separately in the process, the by-products will be addressed uniquely in the waste analysis plan, and decontamination and record keeping procedures are addressed when equipment is transferred from RCRA hazardous waste handling to non-RCRA, NJ DEP X code material processing.

The Site Contingency Plan (Section I), Procedures to Prevent Hazardous (Section G), and Personnel Training Program (Section J), have been updated to reflect the addition of a K048 to K059 and D001 waste codes.

The Closure Plan (Section K) has been revised to properly address the inclusion of these RCRA hazardous waste types. The Closure plan has also been updated to include the improvements in the tank storage system.

Remtech Environmental has undertaken an extensive tank cleaning and tank improvement program. The tanks (see Section H for details) are being fitted with high level alarms and automatic cut off system that will eliminate the potential for overflow of tanks.

The tank storage area that is located south of the process building. (Drawing I in Section F) was originally designated for finished product only. The secondary containment in this area however, is sufficient for additional tanks. Consistent with the process improvements that allow the facility to handle some larger volume waste streams, (for example, water containing oil from customer spill clean up activities) this application includes the addition of two additional 25,000 gallon storage tanks in this area. In addition, four of the six tanks would be designated for both waste and product storage use. This capacity increase for waste storage in tanks will allow for significant improvements process efficiencies. The application includes this proposed increase in all applicable permit application sections, including a revised Closure Cost Estimate (Section K).

To further improve the ability to be fully self contained an automatic cut off valve is being installed at the discharge point where the facility connects to the public sewer. This device is fully described in this submittal (see Drawing K in Section F as well as Section G). This system will detect extremely low levels (ppm) of hydrocarbons and automatically shut off the discharge to prevent oil from entering the public sewer system.

The facility, therefore, in addition to being constructed on concrete with 6 inch curbs, is both physically isolated from discharging onto adjacent properties, and is also electramechanically isolated from uncontrolled discharge. This dual containment is part of the basis for this application requesting limited drum storage for the facilities own process by-products.

The Remtech Environmental facility will not accept waste in drums from customers. However, the wastes that are generated by the treatment process may be produced in volumes small enough that drum storage would allow different by-products to be properly isolated from each other in small quantities. This, for example, would be necessary if quantities of RCRA hazardous waste were being processed. These by-products would be accumulated separately to avoid mixing RCRA hazardous waste by-products with non-RCRA hazardous waste by-products. Accumulation of these drummed by product wastes as well as by-product wastes being accumulated in roll off boxes or dump trailers, could extend beyond 90 days, while sufficient quantities are generated to allow the analyses of representative samples and obtaining final disposal approvals. The application demonstrates sufficient containment of this limited amount of material and the Closure Cost Estimate (Section K) has been modified to include provisions for up to two 25 cubic yard roll offs, or dump trailers or the equivalent volume segregated in drums.

The Inspection Procedures (Section G-2) have been modified, along with the Waste Analysis Plan (Section E) to include provisions for inspection and sampling of drums.

An updated, final construction schedule is included in Section F-3 to address the completion dates for the process improvements.

In conclusion, Remtech Environmental respectfully submits this permit application regarding the Flowen Oil Delaware Valley, Inc. facility to demonstrate that the facility is designed, constructed and operated in compliance with all applicable regulations. A permit issued on this application would allow Remtech Environmental to continue, and improve the operations that have been carried out under interim status.

L EPA I.D. NUMBER GENERAL INFORMATION Ret. 3 Consolidated Permits Program (Read the "General Instructions" before storting.) FNJD980 If a preprinted tabel has been provided, affix It in the designated space. Review the informstion carefully; If any of it is incorract, cross REMTECH ENVIRONMENTAL (NJ) LP through it and enter the correct data in the NAME appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the 1800 Carman St. left of the label space lists the information Camden, NJ 08105 ADDRESS thet should appear), please provide it in the 609-365-5544 proper fill—in area/s/ below. If the label is complete and correct, you need not complete Itams I, III, V, and VI (except VI-B which must be completed regardless). Complete ell items if no label has been provided. Refer to FORMERLY FLOWEN OIL DELAWARE VALLEY INC. the instructions for detailed item descrip-LION tions and for the legal authorizations under which this data is collected. UTANT CHARACTERISTICS TRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA If you enswer "yes" to any ins, you must submit this form and the supplemental form listed in the parenthesis following the question, Mark "X" in the box in the third column upplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity ded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms. HO ATTACHE MARK 'X' SPECIFIC OUESTIONS SPECIFIC QUESTIONS B. Does or will this facility (aither existing or proposed) include a concentrated enimal feeding operation or equatic animal production facility which results in a his facility a publicly owned treatment works nich results in a discharge to waters of the U.S.? X X FORM 2A) discharge to waters of the U.S.? (FORM 2B) 12 D. Is this a proposed facility lother than those described his a facility which currently results in discharges X X In A or B above) which will result in a discharge to aters of the U.S. other than those described in weters of the U.S.7 (FORM 2D) B above? (FORM 2C) F. Do you or will you inject at this facility industrial or Does or will this facility treat, store, or dispose of hardous waster? (FORM 3) municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4) X X X 30 Do you or will you inject at this facility any produced H. Do you or will you inject at this facility fluids for spewater or other fluids which are brought to the surface ciel processes such as mining of sulfur by the Frasch connection with conventional oil or natural gas proprocess, solution mining of minerals, in situ combustion, inject fluids used for enhanced recovery of X tion of fossil fuel, or recovery of geothermal energy? X prinatural gas, or inject fluids for storage of tiquid (FORM 4) 76 hydrocarbons? (FORM 4) Is this facility a proposed stationary source which is Is this facility a proposed stationary source which is NOT one of the 28 Industrial categories listed in the of the 28 industrial categories listed in the inctions and which will potentially emit 100 tons instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment year of any air pollutant regulated under the X X Clean Air Act and may affect or be located in an eres? (FORM 5) attainment area? (FORM 5) ME OF FACILITY REMTECH Environmental (NJ) CILITY CONTACT B. PHONE (Gree code & no.) A. NAML & TITLE (ICH, first, & title) EISCHMANN. PAUL VICEPRES LITY MAILING ADDRESS A. STREET OR F.O. BOX 1 8 0 0 CARMANSTREET C.STATE D. ZIP CODE B. CITY OR TOWN AMDEN 0 8 1 05 LILITY LOCATION A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 1800 CARMAN STREET S. COUNTY NAME 'M D E N C. CITY OR TOWN AMDEN

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U.S. ENVIRONMENTAL PROTECTION AGENCY
HAZARDOUS WASTE PERMIT APPLICATION
Consolidated Formits Program

Form Approved OMB No. 158-S80004

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ATED ANNUAL QUANTITY - For each listed weste entered in column A estimate the quantity of that waste that will be handled on an annual or each characteristic or toxic contaminant entered in column A estimate the total ennual quantity of all the non-listed weste(s) that will be handled ch possess that characteristic or contaminant.

DF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE CODE
POUNDS	KILOGRAMS
TONS	METRIC TONS

ty records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into unt the appropriate density or specific gravity of the waste.

OCESS CODES:

listed hezardous waste: For each listed hezardous weste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the weste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminent entered in column A, select the code/s/ from the list of process codes prained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous westes that possess t characteristic or toxic contaminant.

at Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

EXOCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

IAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hezardous westes that can be described by Th one EPA Hazardous Waste Number shall be described on the form as follows:

Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual santity of the wests and describing all the processes to be used to treat, store, and/or dispose of the wests.

Column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the wests. In column D(2) on that line enter

actuded with above" and make no other entries on that line.

Repet step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous weste.

LE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will trest end dispose of an estimated 900 pounds of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed westes. Two westes give only and there will be an estimated 200 pounds per year of each weste. The other weste is corrosive and ignitable and there will be an estimated nds per year of that weste. Treatment will be in an incinerator and disposal will be in a landfill.

A. EPA		C. UNIT	-[1. PROCESS CODES (enter)				ŧ	D. PROCESSES				
AZARD. ASTENO nter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	SURE (enter code)								2. PROCESS DESCRIPTION (If a code is not entered in D(1))				
K 0 5 4	900	P		T	0	3	D	8	0	—		77		
002	400	P	·	T	0	3	D	8	0	•	Ī	1 1		
001	100	P		T	0	3	D	8	0			1 1		
1 D 0 0 2								1	1	I	T			included with above

REFERENCE NO. 4



Preliminary Assessment

FLOWEN OIL DELAWARE VALLEY 1800 Carmen Avenue Camden/Camden County FLOWEN OIL 1800 Carmen Avenue Camden/Camden County

Flowen Oil Delaware Valley Corp. is a reprocessing facility for used oils. Flowen Oil vehicles collect the waste oil from customers and bring it back to the Camden facility to be reprocessed.

Although their process is similar to most reprocessing companies, Flowen Oil does not have the quality control that other companies have. Reports of several spill incidents and internal administrative problems suggest that the company is not well run.

However, since the facility does have some environmental control, and NJDEP-BFO and CCMUA are taking regulatory action against the company, I am giving this site a low priority.

> Helen E. Kornitas HSMS IV

Hours Worked: 32

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POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

Camden NJ 08105 Camden COOK DET COOK DET COOK OF COOK DET COOK DET COOK OF COOK DET	PART 1 - BITE INFORMATION AND ASSESSMENT NJ 0980536577								
Flower Oil Delaware Valley Corp. 1800 Carmen Avenue Caschi Camden Delaware Valley Corp. NJ 08105 Camden Decomponants Lattruck 300 561 321" T55 061 00" Block 1431, Lot 1 Take Rte. 70 West to Marlton Pike. Take Marlton Pike to Federal Street. Make a left onto Federal St. Take this to 17th Street. Make a left. Site is one block down on the corper of 17th & Carm n. III. RESPONSIBLE PARTIES OF OFFICE OF TAKE TO WEST OF TAK		1.4		BAIR SA					
Camden OB CONCINENTS LATTUDE 39° 56' 37"	1).	1800	Carmen A	venue				
302 561 371 75° 061 00" Block 1431, Lot 1 10 DRECIONS TO SHELLING SAME AND THE STORE TAKE MARITON PIKE to Federal Street. Make a left onto Federal St. Take this to 17th Street. Make a left. Site is one block down on the corner of 17th & Carm n III. RESPONSIBLE PARITIES 01 OWNER PROVISE PARITIES 10 OWNER PROVISE PARITIES 11 OF OPERATOR MARIES 12 STREET THE STREET PROVISE PARITIES 12 STREET THE STREET PROVISE PARITIES 13 TYPE OF OWNER PROVISE PARITIES 14 1 1 20 STREET PROVISE PARITIES 15 OTHER BITS AND DATE RECEIVED TO STREET PROVISE PARITIES PROVIDED PROVI	Camden .					07 COUNTY 64 CONG CODE DIST			
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Stockholders based in Texas Destate Os state Os st	left onto Federal St. Take thi	is to 17th							
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Archie Bilsland 1800 Carmen Avenue	as city		TX		()				
Camden NJ 08105 609 3 365-5544 Committee Commit	,	C							
C. STATE D. COUNTY E. MUNCOPAL C. O. C. STATE D. COUNTY C. O. C. NONE C. STATE D. C. STATE D. C. NONE C. STATE D. C. NONE C. STATE D. C. STA									
A RCRA 3001 DATE RECEIVED WASTE TYAN DAY THAN DEPARTMENT OF POTENTIAL HAZARD OF DATE OF DATE OF THAN DAY THAN	ZA. PRIVATE □ B. FEDERAL:	(Agong, asto.			E DD.COUNTY DE.M.				
OF CONTRACTOR MANEEST DATE 3, 27 84	A ACRA 3001 DATE RECEIVED DAY TEAR DE UNCONTROLLED WASTE SITE (CERCLA 103 0) DATE RECEIVED.								
BY YES DATE 3,27.84 D. A. EPA D. B. EPA CONTRACTOR W. C. STATE D. OTHER CONTRACTOR DELLOCAL HEALTH OFFICIAL D.F. OTHER: CONTRACTOR NAME(S): O2 SITE STATUS. C. C. C. UNKNOWN 03 YEARS OF OPERATION 1980 present D. UNKNOWN									
CONTRACTOR NAME(S): 03 YEARLOT OPERATION 1980 present DUNKNOWN 04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED Benzene, Toluene, Xylene and other products associated with oils and waste oils. 03 DESCRIPTION OF POTENTIAL NAZARO TO ENVIRONMENT AND OR POPULATION There is a potential for contamination of the environment. However, because of the nature of the waste, it may not be a serious hazard.	RYES DATE 3 / 27 84 D.A. EPI	A D. B. EPA (CAL HEALTH OFFIC				CONTRACTOR			
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There is a potential for contamination of the environment. However, because of the nature of the waste, it may not be a serious hazard.			ts a	ssociated	l with oils and w	aste oils.			
	There is a potential for contanth the nature of the waste, it may	mination of				ecause of			
	V. PRIORITY ASSESSMENT	· 			·				
O1 PRIORITY FOR INSPECTION (Cheek one 2 high of measure a proposed, appropriate Part 2 - treats promised and Part 2 - Description of majorities Concerns and Statement O A. HIGH	□ A. HIGH □ B. MEDIUM	ES C. LOW Interest on some or		1 3 - Deservation of ma D NON 1 the mark	romana Candagan and Assaura) IE San assau madad, bampian ayanna daga				
VI. INFORMATION AVAILABLE FROM									
Helen E. Kornitas NJDEP/HSMA 609,633-2218	Helen E. Kornitas	NJDEP/	'HSMA			609 1633-2218			
Helen E. Kornitas NJDEP HSMA 609 1 633-2218 2 14,56	1		1			1			

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OAM 2070-12 (7-81)

POTENTIAL MAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

L IDENTIFICATION
O1 STATE | 02 SITE MANUAL |
NJ 0980536577

PHYSICAL STA	ATES, QUANTITIES, AA	G2 WASTS GUANT		MA TOXC	EMETICS (Create of their of	_	CLAIM
A SOLO B POWDER C. SLUGGE	PINES AND LIGHTS	ł .		II & CORROL LI C RADIOA LI D PERSIS	erve u f enfec CTME u g fund	CTIOUS L. J EXPLOSE MARLE L. K. REACTA ARLE L. L. INCOMP	IVE VE VATUBLE
D. OTHER	(Spacoy)	•	<u>5100 capac</u> i	y		U M. NOT AP	PLEAGLE
VASTE TY	PE						
ATEGORY	SUBSTANCE	······································	DI GAOSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE				ļ		
2.4	OILY WASTE		5100	drums	storage (capacity	
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PSD	PESTICIDES			<u> </u>			
occ	OTHER ORGANIC C	HEMICALS					····
oc	INORGANIC CHEMIC	CALS			ļ		
ACD	ACIOS				 	***************************************	· · · · · · · · · · · · · · · · · · ·
BAS	BASES				ļ		
AES	HEAVY METALS				<u> </u>	•	
·	US SUBSTANCES					T	Too see a suite (
CATEGORY	02 SUBSTANCE	<u> </u>	03 CAS NUMBER	04 STORAGE DIS		05 CONCENTRATION	CONCENTRATE
$\Omega M - 1$	Waste Oils	•	999	Above gro	und tank	_	
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SOURCES	OF INFORMATION ICA		-	.000016-1			
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irct S	ormation is t	anen from Apolios±i	שויו/מדט, Ke	u Lion Uff	ice files.		
atter	upplement to	nd from 1	on for 5011d	waste Peri	nit (Attack	nment A)	
FULL	to benefor ka	na trom J	ack Stanton- nald Corcory	DWM (Attacl	hment B)		

Ref 4 5969

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PRECIPITION OF HAZARDOUS CONDITIONS AND INCIDENT

L IDENTIFICATION

O1 STATE 02 BTE MARKER

NJ 0980536577

HAZARDOUS CONDITIONS AND INCIDENTS			
A GROUNDWATER CONTAMINATION POPULATION POTENTIALLY AFFECTED:	02 OBBERVED IDATE. 04 NARRATIVE DESCRIPTION	_) MEPOTENTIAL	C ALLEGED
ncontained discharges of oil Attachment D)	may penetrate soil and read	ch groundwater.	
I K B SURFACE WATER CONTAMINATION 3 POPULATION POTENTIALLY AFFECTED:	02 LI OBSERVED IDATE	POTENTIAL	L ALLEGED
Although surface water contames possible. (Attachment E)	nination is highly unlikely,	if oil is unco	ntained, i
11 I.J.C. CONTAMINATION OF AIR 3 POPULATION POTENTIALLY AFFECTED.	02 C OBSERVED (DATE	CJ POTENTIAL	C: ALLEGED
•			
D1 :: D FIRE/EXPLOSIVE CONDITIONS D3 POPULATION POTENTIALLY AFFECTED:	02 C: OBSERVED IDATE 04 NARRATIVE DESCRIPTION	D POTENTIAL	L ALEGED
C3 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION	#2*1.+*4.	~LLIGED
- .			
	02 BLOGSERVED (DATE: 8/20/85	[] ED FOTENTIAL	C ALLEGED
03 AREA POTENTIALLY AFFECTED.	_ 04 NARRATIVE DESCRIPTION		
UI & F CONTAMENATION OF SOIL US AREA POTENTIALLY AFFECTED. OIL Spill contaminated soil OIL G DRINKING WATER CONTAMINATION US POPULATION POTENTIALLY AFFECTED	_ 04 NARRATIVE DESCRIPTION		
Oil spill contaminated soil Oil, G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	OR CHORSERVED (DATE	's land. (Atta	u ALEGED
DI CONTAMINATED CONTAMINATION DIS POPULATION POTENTIALLY AFFECTED	located on a nearby resident	's land. (Atta	chment D)
Oil Spill contaminated soil	O2 C: OBSERVED (DATE	S land. (Atta	u ALEGED

POTENTIAL HAZARDOUS WASTE SITE			L IDENTIFICATION	
PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS		OI STATE OF ST	TE MANSER	
14-ZARDOUS CONDITIONS AND INCIDENTS		· · · · · · · · · · · · · · · · · · ·		
DAMAGE TO FLORA	02 C CREEAVED (DATE:)	D POTENTIAL	D ALLEGED	
		•	<u>-</u>	
C K DAMAGE TO FAUNA NAMATIVE DESCRIPTION RELEASEMENTS OF SPECIAL	O2 © OBSERVED (DATE)	C LOLENINT	C ALEGED	
CONTAMINATION OF FOOD CHAIN MATIVE DESCRIPTION	02 DOBSERVED (DATE)	□ POTENTIAL	□ ALLEGED .	
POPULATION POTENTIALLY AFFECTED.	CXCI OBSERVED (DATE	C POTENTIAL	□ ALLEGED	
Several spills have occurred wite not. (Attachment D)	onsite. Most of the spills we	re contained	l, but a few	
文 N DAMAGE IU UPFSITÉ PROPEIL . NARRATIVE DESCRIPTION	02 M OBSERVED (DATE8/20/85)	() POTENTIAL	D ALLEGED	
of from a Flowen Oil truck neighboring resident's yard.	<pre>contaminated soil at Penn Jerse (Attachment D)</pre>	y Auto yard	and a	
PARTINE DESCRIPTION	ed and oil-was discharged into t	C POTENTIAL the city stor	m drain	
. TH ILLEGALIUNAUTHORIZED DUMPING I NAFIRATIVE DESCRIPTION	02 00 00 00 00 00 00 00 00 00 00 00 00 0	D POTENTIAL	C ALLEGED	
Day inspection reports state intoming tank farm. (Attach	e excessive amounts of oil on the ment 6)	ne ground ard	ound the	
S DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL	, OR ALLEGED HAZAROS			
T AL POPULATION POTENTIALLY AFFECTE	D:			
COMMENTS				
company should be more caref in the future.	re have been several spills due ful in their process to prevent			
S IRCES OF INFORMATION (C	<u> </u>			
Ammended Notice of Violation Litters concerning oil-water Notice of Violation (12/9/83	ns (5/14/84) (Attachment E) r seperator failure (Attachment	F)		

PA REASSESSMENT COVER SHEET

FACILITY NAME	: _ Flowen C	<i>)(</i>
EPA 1.D. 4 :	NJD980534	.577
ORIGINAL PRIO	RITY: Low	
REVIEWED BY :	<u> </u>	·
Y		
REASSESSED PR	IORITY: Made	<u></u>
COMMENTS : <u>R</u>	epocessing facility +	for used oils, Flower
vehicles co	Hect the waste oil for	ion customers and bring
		to is reprocessed. There
		fall incidents and T
is suspected	that the facility	is not property nin
NJDEP-BFO	and CCMUA ON	taking regulation
NJOEP DWM	1-	: 5.te i. Hed- Defined
		SSETT GINDLINGS OF DIT ON
₹	amound the tone for	'ni
Not enough	into to score	
PREPARER :	Clarrey	DATE : 3/2/59

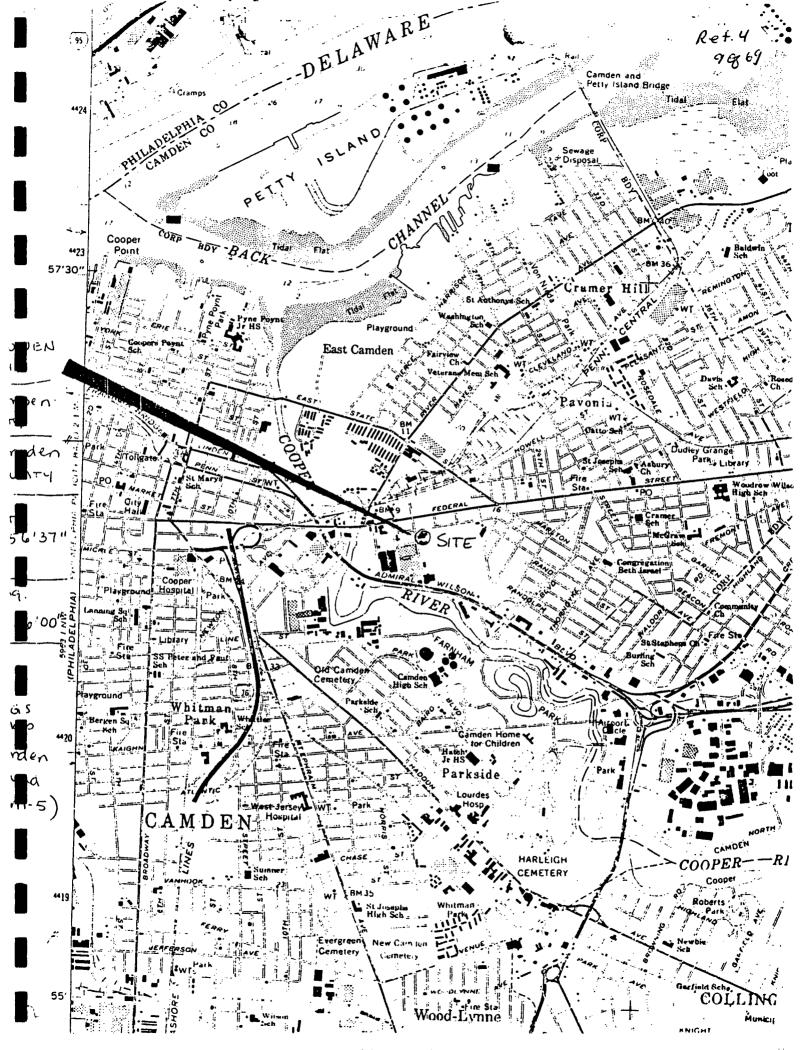
PRELIMINARY ASSESSMENT FILE SEARCH

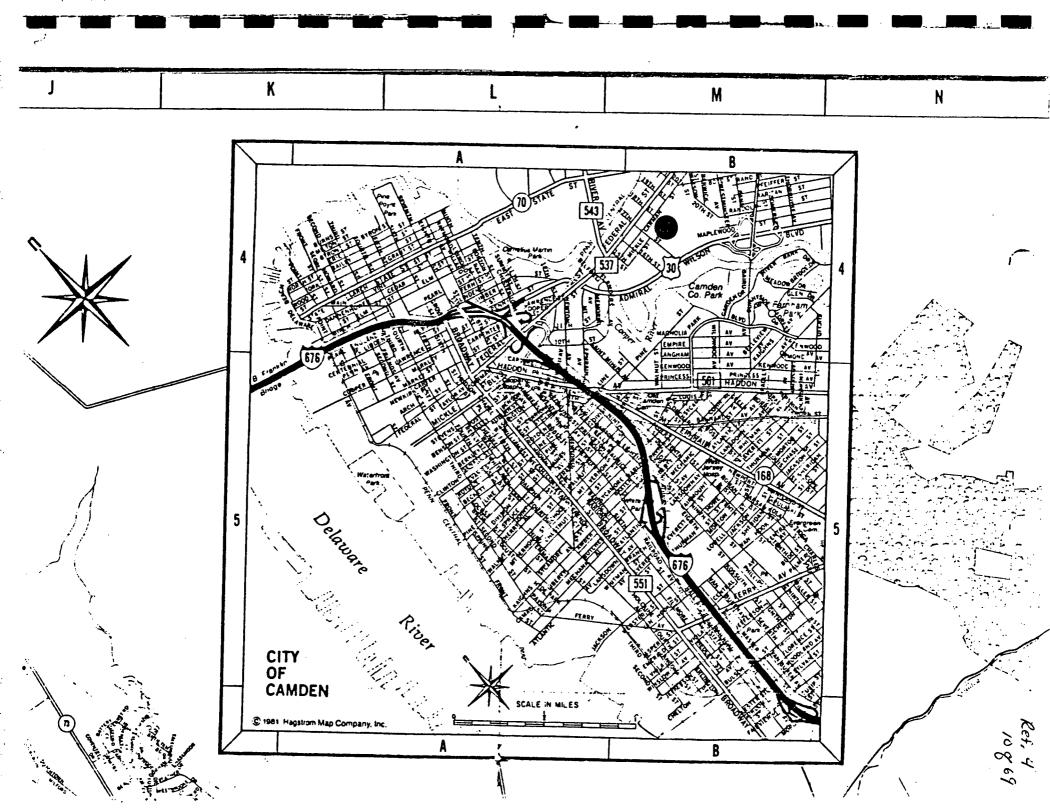
1800 Carmanst.
Camden/Canden Co

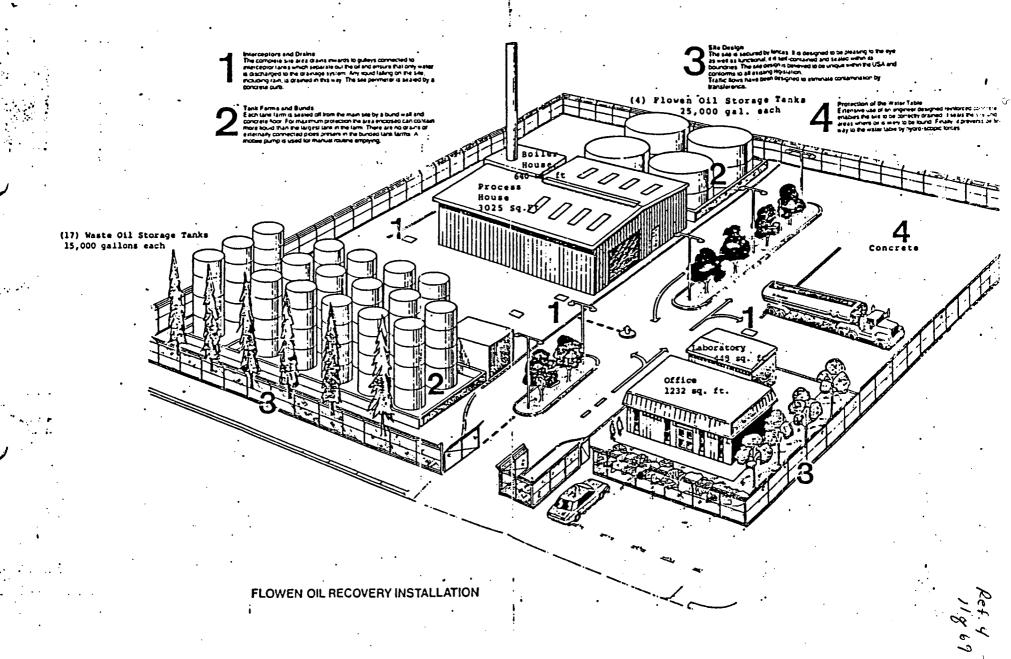
Ref. 4' 8969

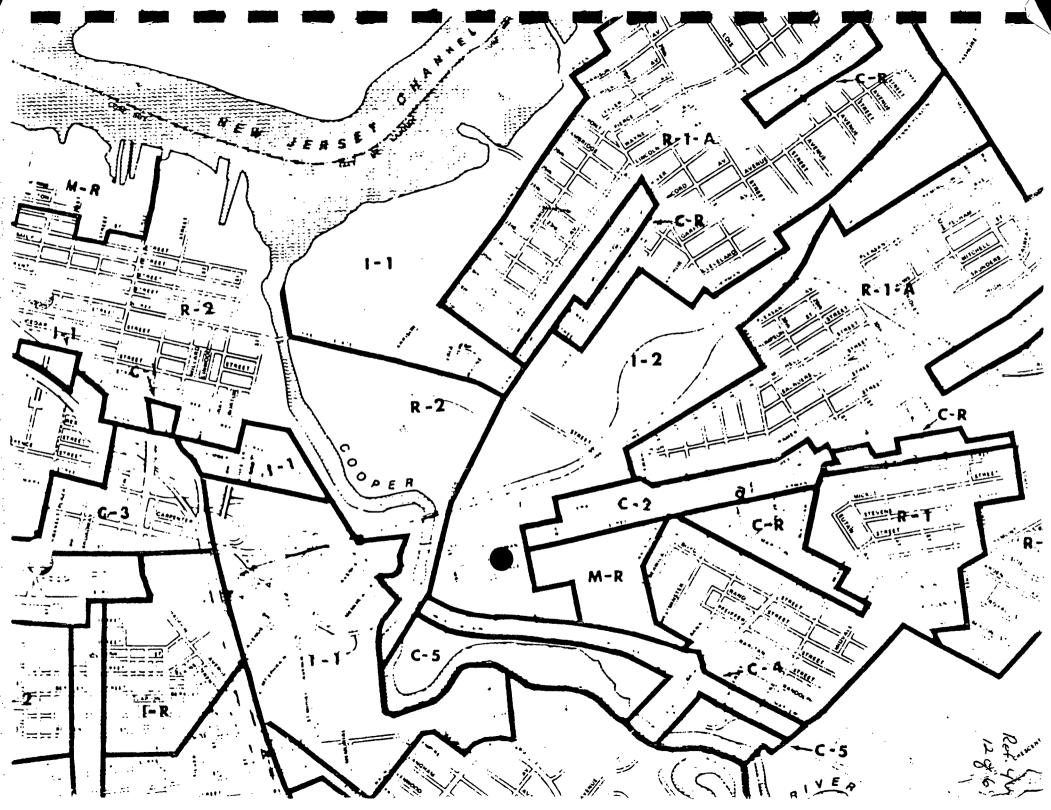
NJOEP	•
DIVISION OF WATER RESOURCES:	
A. Laforcement	
B. Groundwater	
C. Other	
DIVISION OF WASTE MANAGEMENT:	
A. HSMA	
B. Enforcement Red Lion-Mike (Files)	•
C. Solid Waste	•
EHYTRUNMENTAL QUALITY:	
A. Air Pollution	
B. Pesticides	_
C. Other	
DIVISION OF FISH AND CAME:	
OFFICE OF SCIENCE AND RESEARCH:	
A. Industrial Survey	
B. Other	
N.J. DEPARTMENT OF HEALTH:	
LOCAL AUTHORITIES:	
A. Health Department	
11. Town or County Clerk CCMuA 541-5200	Mr. Palmer
UNITED STATES COVERNMENT:	
A. LIPA	

B. other

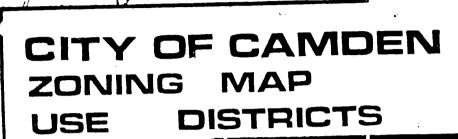












R-1-1. RESTRETTIAL - Caty of Candin Zonery Map

R-1 RESIDENTIAL

Houring and Urbai

NJ = 92 = 90 = 1155.

Development Project NA

CPA-87-02-00-1123 and C

R-2 RESIDENTIAL

C-1 COMMERCIAL

C-2 COMMERCIAL

C-3 COMMERCIAL

C-4 COMMERCIAL

C-3 COMMERCIAL

i-1 INDUSTRIAL

I-2 INDUSTRIAL

C-R COMMERCIAL-RESIDENCE

I-R IMSTITUTION-RESIDENCE

M-R MANUFACTURING-RESIDENCE

C-C CITY CENTER FLEXIBLE

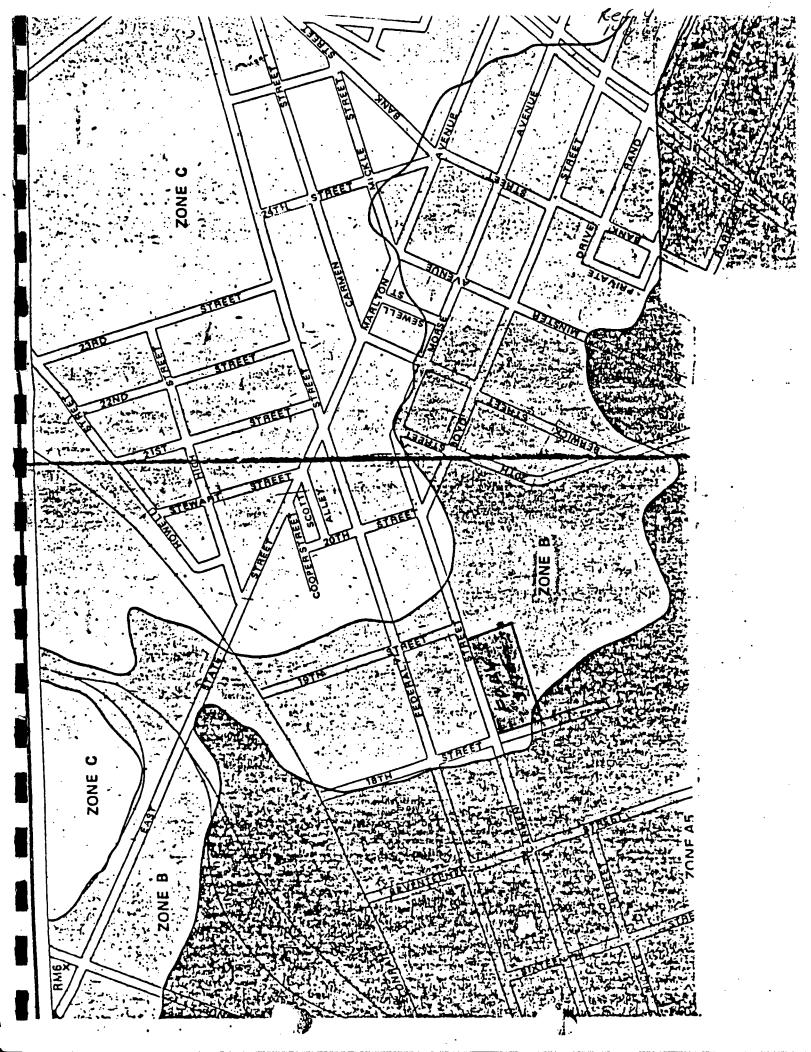
DEVELOPMENT DISTRICT

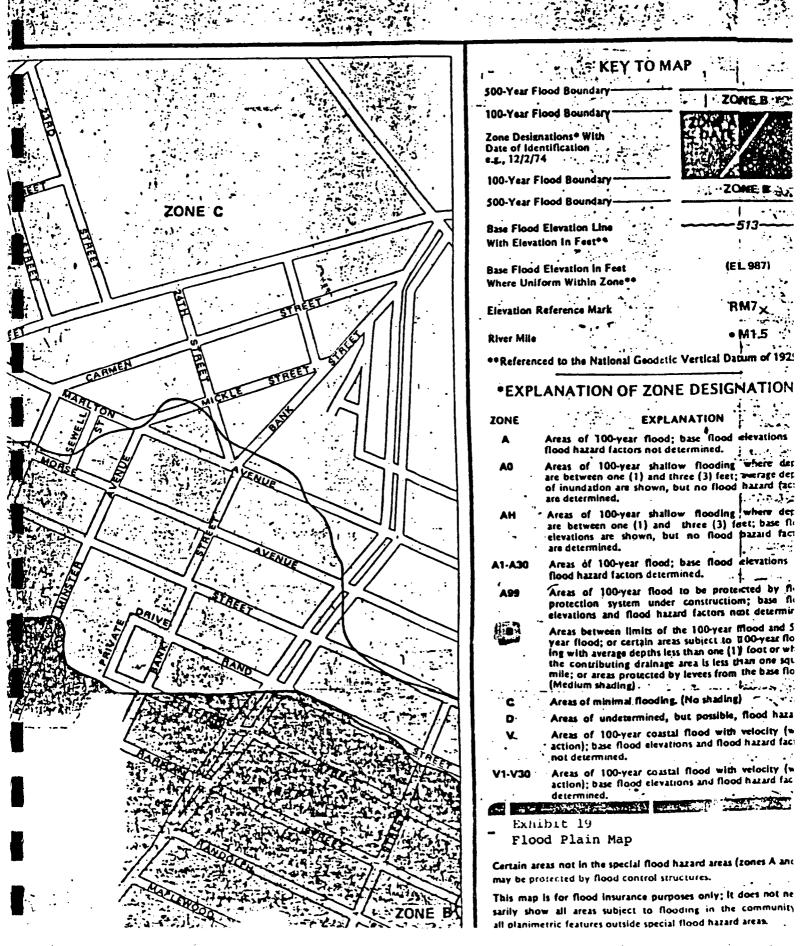
HI-H __ HIGHLAY INTERCHANGE/MASS

TRANSIT RELATED FLEXIBLE

DEVELOPMENT DISTRICT







FLOWEN OILS DELAWARE VALLEY

FIRST SUPPLEMENT TO

APPLICATION FOR

SOLID WASTE PERMIT

A L. 1 LLA

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NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION | SOLID WASTE FACILITY OLID WASTE ADMINISTRATION .O. BOX 2807, TRENTON, NJ 08625 APPLICATION OFFICE USE ONLY Application Number ate Received AME OF APPLICANT: (Print) Flowen Oils Title Delaware Valley, Inc., corporation of New Jersey CMPANY OR TRADE NAME: Same as above STREET ADDRESS 1800 Davis Street TELEPHONE 609 962 7100 TIME Camden STATE New Jersey ZIP CODE 08101 APPLICANT'S FEDERAL EMPLOYER I.D. OR SOCIAL SECURITY NO:____ TYPE OF ORGANIZATION: (Check One) Proprietor Partnership Incorporated XX Municipality County State Government Federal Government Other CORPORATE OR PARTHERSHIP DATA (If any): Registered in State of: New Jersey County of: Camden Date of Filing May 13, 1980
Agent's Name: Last: Pierce First Alfred M.I. R Street Address 312 Ferry Office Bldg. Telephone 609-962-7100 City Camden State New Jersey Zip Code 08101 PERSON TO HAVE PRIME ADMINISTRATIVE AUTHORITY Name: Last Forte First Joseph M.I. F relephone 609 - 962 7100 XXX New Facility APPLICATION FOR: (Check One) Expansion of Existing Facility No.__ Closure of Facility No. -----Disruption of Facility No. -----Licensed Professional Engineer Responsible For Submitting The Attached Design Engineers Name _____ Thomas A. M. Fisher Seal No. Engineering Firm's Name Fisher & Sampson Address 929 N Kings Highway Churry Hill N.J. 08034 Telephone No. 609 667 1100

PACILITY TYPE: (Separate pplication, for	Each) . Ref. Y
A. Sanitary Landfill B. Incinerator C	Compost D. Chemical Processing &
A. Sanitary Landfill B. Incinerator C	Treatment Facility
	□ a, ,,,,, # □ 3,,,,,
E. Resource Recovery Facility F. Tra	nsfer Station G. Shedder H. Salar
I. Sludge J. Disruption K. y Other	Waste Oil Processing
FACILITY NAME:	
This Facility: (Check One) is, y is under PUC regulation. PUC License No. (1	not, will be, will not be
FACILITY LOCATION: Attach Map)	Part of Lot 1, Block 1431 Block No: Lot (5)
Street Address	Block No. Lot (s)
Municipality	
Centry	Block No. Lot (5)
	Years Tons
	YearsTons
IF EXPANSION ADDITIONAL LIFE	
Leased (Attach copy of Lease) X A Cwned (Attach copy of Deed or Certifi Owners Name: (Last)	.cate of Ownership)(MI)
Owners Address: Street Municipality	Stata2ip
WASTE TYPE: (Check all Types Requested	for Acceptance at this Facility)
· ·	SEPTAGE
SOLIDS 10. Municipal (Household, Commerci and Institutional)	al 73. Septic Tank Clean-out Waste 74. Liquid Sewage Sludge
12. Dry Sewage Sludge	LIQUIDS '
1]. Bulky Waste 17. Hazardous Waste - Dry	
18. Chemical Waste - Dry -	70. Waste Oil and Sludge 72. Bulk Liquid and Semi-Liquid
Non Hazardous 23. Vegetative Waste	76 Hazardous Waste Liquics
Animal and Food Processing Was	
26. Oil Spill Clean-up Wastes	•
27. Industrial (Non-chemical)	
I certify that the information contain	and on all attachments are
	ned herein and on dir direction
true to the best of my knowledge.	
signature	Date
true to the best of my knowledge.	Date

FLOWEN OILS DELAWARE VALLEY, INC

Flowen Oils Delaware Valley, Inc. is a New Jersey
Corporation incorporated on May 13, 1980. The purpose of the
Corporation is to own and operate a Used Oil Recycling Plant to
be located between Carman and Mickel Streets in the City of
Camden.

Our raw product is defined as used lubricating oil which will come from equipment such as automobile crank cases, truck and bus crank cases, industrial gear boxes, oil from bearing lubrication, oil from industrial hydraulic systems and oils used in the metal cutting machine shops. All operations, as listed above, and any similar type operations will be our source of raw product.

The process is for the recycling of used motor, lubricating and industrial oil. The operation will begin by having trucks owned by the Corporation pick up the raw product from gas stations, garages, industrial plants, and other locations for delivery to the Flowen Oil Plant. The contents of the truck will be evaluated by a lab technician for quality control purposes. The oil will be deposited in a large tank where it will remain for about three days until the water and oil have separated.

From the tank the oil will then be funneled into settlement tanks, then to an initial indirect heating process for viscosity control and then to screen for solids removal.

The oil will then pass into a second indirect heating

phase where the oil is further thinned out to permit a second stage of cleaning. Following the second process the oil passes into three steamed heated centrifuges for the removal of the final particles or solids that may still be present in the oil. Emerging from this phase, a small amount of oil will be transmitted back into the plant's own boiler fired by the Corporation's own product. The remaining oil will pass into finished product tanks where it will remain until a demand for the product is made.

Upon receipt of a demand and/or order for the product, the appropriate quality control tests will be made for customer satisfaction. The trucks will then deliver the product to the customer.

Attached to this application are the engineering drawings, maps and legal descriptions required by the Solid Waste Administration. Additionally, drawings of the buildings are included with the application.

with respect to safety devices, the entire system and processing of oil through it is monitored at each stage by well-designed instrumentation. If a failure occurs at any stage, the appropriate instrumentation will activate an automatic safety device which will immediately shut down the entire system and send out an audible alarm linked to a visual alarm and indicate where the fault is situated in the system's control panel. In addition to this the steam heated centrifuges have an automatic locking device which prevents the opening of a centrifuge lid while the core is still rotating. Finally, in the event of power

NEW JER DEPARTMENT OF ENVIRONMENTAL PR CTION
DIVISION OF WASTE MANAGEMENT

· · Ret. 4 21 969

NOTICE OF VIOLATION

IDNO. 0408B	DATE	12/9/83	
NAME OF FACILITY Flows			
LOCATION OF FACILITY 150			
NAME OF OPERATOR Tim			
TARREOT OF CHATON			

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

DESCRIPTION OF VIOLATION Excessive asounts of soil
on ground around incoming tout form
on ground around incoming tout form. This violation also noted on report of
11/1/83.
(Added at Red Lion Office after inspection) to minolation
of387:26-9.2(A)2 and NJSA 58:10-25,11c,
NJSA 58:10-23.11e

Remedial action to correct these violations must be initiated immediately. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

Investigator, Division of Waste Management
Department of Environmental Protection

14 11 Sat 11

JIVISION OF WASTE MANAGEMENT

Ref. 4 22469

NOTI	CE OF	VIOL	ATION

ID NO. 04-085	DATE
NAME OF FACILITY Flower	Oil Oel. Val. Corp.
	Carnon Aug Canden
NAME OF OPERATOR	CARCEST
violation(s) of the Solid Waste Mar	uring my inspection of your facility on the above date, the following nagement Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C.
7:26-1 et seq.) promulgated thereu	under and/or the Spill Compensation and Control Act, (N.J.S.A.

58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

DESCRIPTION OF VIOLATION & Excessive amount of oil
con ground on the Cours Are side
of the incoming Tank form. This undation
noted in reports of 11/17/83 and 12/9/83.
@ Dails inspection log not kept up to date - last entry 12/13/83.

Remedial action to correct these violations must be initiated immediately. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

Investigator, Division of Waste Management Department of Environmental Protection

COLATIONS

	TYPE OF		NOTICE		
ATE .	NOTICE	CITATION(S)	DATE	TYPE	PENALTIES
2-/-82	F N.O.Y.	7.26 Sec 3(47) 7 48 / hili			
			6-16-85	Fin Silo	4 800
			10-16-43	All m Ord	a
14.83	L	7.26.12.36)2 7:26-4.3(0)3	4-17-83	(N.O.V	
4-21-83)	1) via ma	
- 3 - 3 - 3	NUV	worth att the want of switch		P8750.	-> 750/AO.
1-7.83	NOV	Duily Dague Loy met Kept or to doe	land intry 11	3-35	
12-9.83	N.O.V.	act in June 6 4 also 7.26.92(d) 2	l		
1		NYJA 3410 23 11c 53 16-25 11a	7.2334	N.O.V	
1-18-83	NOV.	oll on ground - Anspe ley not get	2-14.84	iter in the	42,315.00
7-1-84	N.C.J.	N.J. 111d refer t # 0197.524	6-15-84	BOIRO	1 627500
2.27-84	N.O.Y.	NOAC 7.26.4.41)41 7.26.7	<u> </u>		
5-12-84	NOV.	Vist of Manifest 4's 014152, 03415.			
77-07	1800.	0221546	 '		
	<u> </u>	10-21-83 Inosec [7:26-74a]	 		
		74x 1 (Tog + Barge Dry Dock	7-20-84	NOV /PSC	\$875.00
		10-13-83 10-24-83 11-3-83	70-07	110-11-00	10/0.00
		Inspec - (7.26.34h 7592.	+ 1-20-84	NOVIES	\$1500.00
		7.602 9.4d4i 12302	71.7.00.07	700 -770	1,700.00
4-26-84	NOV.	NSAC 7:26-7:402			
6-15-84	wou	NJAC 7:26-7.1 - teseen	Dec - 6.	27.84	
3-27-84	NOV	NOAC -7:26-9-495111, 9-4951V			
		9.64 9.70 09.79 9.712			
		9.4241:			
11-34	FNOU	loagh from luring face.			
		7 5 /d 1310.15, 18141, 18.	12-19-84	FSO/AC	\$ 700
		7.7.5.7.6	ļ	///-	
2.00	C. 10.11	75-63276627	1:-14.84	Nou/Pso	3500
25-25-1	ENCL	75/4) (3/V/5,18,161)			
		7.5602, 7.6602	-11.41	110 11 115	0/2.2
		73.11 0	5-11-81		
		13,11c, e 13,0, to Klock 7,4(a)1			U/PSD \$600
		la lander to Post "	5-16-84	1.	
		Ning 100 Los		 	
2.28.84	FNOU	(9362),		 	
12.28.84		12 3(h)3	5.7.85	NOV/PSO	\$500
2-4-95	FNOU	12 ×e)2	1	1	
	 				
				1	
			 		
	<u> </u>		<u> </u>	<u> </u>	<u> </u>
-					

NJDEP INSPECTION FORM

Report Prepared for:

Generator 📉	
Transporter /X/	
WM (TSD) facility <u>/</u> Xブ	
	Facility Information
Name:	Flower Oil Delaware Valley Corp.
Address:	1800 Carmon Aire
•	Canden, N. J. 08105
<u>Lot</u> :	1 Block: 1431
County:	CAM den
Phone:	(609) 365-5544
EPA ID#:	NJD980536577
Date of Inspection:	3/27/84
	Dambiaiaabiaa Damaaaa 1
	Participating Personnel
State or EPA personnel:	Bruce Venner
Facility personnel:	Jim CACCESSE
	•
Report Prepared by Name:	Bruce Venner
. Region:	I Southern
<u>Telephone #:</u>	(609) 859-2958
Keviewed by:	51/10/8H TO
Date of Review:	4

Summary of Findings

Facility Description and Operations

Elous ail Del Val Corp. is a processing
facility for waste oils. Homes Oil welicles
(and independent houses) rollect moste oil from facilities
mer deruit Dintims and Vivia It Usall
the Flower Racility for processing. The bosic process is as follows: The ail is After the load is tested for BS+W and flood (if necessary) any mater is desconted through any interest
process is as Rollows: The sil is Alter the
load is tested for BS+W and Dlord (if meresson)
any mater is deconted through an interceptor
system. The oil is then unloaded into a screen
system to collect any debris in the sil. From
here the oil is placed into a thintanh form
according to the suspended water context when
processed the ail is taken from the took fam and leated After the two princip leaters the ail gove to a shake Oilter of the old to be to be a shake of the oil of the
heated After the to primar leaters the oil and
to a slaker filter and break touch where clemicals
are added to helpthe mater precipitate out. The
mater gove to the interceptor eneting and the sil
reheated and sent to the Flown oil filters.
This material is the Pinal and the distriction.
This material is the final product and is the sumped to the Flower ail product touch farm.
from sure fram.

Describe the activities that result in the generation of hazardous waste.
Hazardow maste is generated in the form
of of solids or heavy sludge when the interceptor and the filters are cleaned.
and the filters are cleaned.
·
Identify the hazardous waste located on site, and estimate the approximate
quantities of each. (Identify Waste Codes)
fami consists of 24,000 gallons of maste
form consists of 24,000 gallows of maste
oil 15 Hayardons Waste - x seins, EPA
voste type code DOOR reactive.
•
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The Certificate of Approved Registration and Engineering Design Approval issued to "Flowen Oils Delaware Valley, Inc." on June 10, 1981 is hereby amended to include the addition of a chemical injection unit, to be used to reduce the water content of the waste oil before it is pumped to the process house.

This Amended Certificate of Approved Registration and Engineering Design Approval (Amendment) is granted only for the operation of the chemical injection unit, as described in the engineering drawings and narrative prepared by Mr. Joseph T. Wozny, P.E., dated December 13, 1982, and the notification letter submitted by Mr. James Caccese, dated October 7, 1982.

This Amended Certificate of Approved Registration and Engineering Design Approval shall be conditioned upon compliance and implementation of the following:

- 1. This Amendment shall only apply to the permitted use of a chemical injection unit, which shall be solely used for the purpose of injecting chemicals that will promote a more efficient oil-water separation process in Tanks 1-2, Tanks A and B, the "A" Line into the process house, and the "B" Line into the process house. The construction of the chemical injection system shall be according to Drawing No. FO-PS-1, prepared by Joseph T. Wozny, P.E., dated December 9, 1982. The operation of the system shall be as stated in the December 13, 1982 and October 7, 1982 leters, signed by Joseph T. Wozny, P.E. and James Caccese, respectively.
- 2. This Amendment shall not be construed to allow for the acceptance by Flowen of any additional waste types, other than those permitted in Condition 14 of the original Certificate of Approved Registration and Engineering Design Approval, dated June 10, 19&1. Newly promulgated regulations, effective January 17, 1983, have designated certain types of waste oil as toxic wastes. All of the waste types Flowen has been permitted to accept have been listed as toxic wastes. The corresponding NJDEP hazardous waste numbers are:

X721 Waste automotive crankcase and lubricating oils from automotive service and gasoline stations, truck terminals, and garages

X726 The following used and unused waste oils; metal working oils; turbine lubricating oils; diesel lubricating oils; and quenching oils.

The NJDEP hazardous waste number for bottom sludge generated from the processing and treatment of waste oil is X728.

3. Process Description

The chemical injection unit shall be operated as described in the previously mentioned letters dated December 13, 1982 and October 7, 1982. The following is a description of the process: The demulsifier agent can be injected into the following:

W/ The

- 1. The "A" line or "B" line at a point between tanks A or B and the process house.
- 2. Tanks A or B.
- 3. Tanks 1-12.

The point of injection will be determined by the quality of the waste oil into which the demulsifier is injected. When the injection process is completed, all valves will be closed.

5. Equipment Description

The following equipment, as discussed in the previously mentioned December 13, 1982 and October 7, 1982 submittals, signed by Joseph T. Wozny, P.E., and James Caccese, is hereby authorized to be implemented as part of a chemical injection unit for waste oil treatment:

- One 55 gallon P.V.C. tank, mounted together on a .2 1/2' x 3' metal platform.
- 2. One 1/4 horsepower_electric motor with a pumping capability of 0 to 17.8 gallons per hour.

All equipment, including valves, shall be located as shown on Drawing Number FO-PS-1, prepared by Joseph T. Wozny, P.E., dated December 9, 1982.

6. Reporting Requirements

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Flowen Oils Delaware Valley, Inc. shall submit a report detailing the progress with the system and also the advantages/disadvantages of using the chemical injection system within one (1) year of the date of this Amendment. The report shall include more definitive operating procedures, which could not be answered in Flowen's December 13, 1982 submittal due to a lack of production experience with this type of unit.

MODIFIED APPROVAL CONDITION FOR FLOWEN OIL DELAWARE VALLEY, INC., CAMDEN, CAMDEN COUNTY

The Amendment to Engineering Design Approval issued to Flowen Oil Delaware Valley, Inc. on January 18, 1983 is hereby revised to allow for the acceptance by Flowen Oil of certain additional waste types.

This revision to the Amended Certificate of Approved Registration and Engineering Design Approval is granted in response to the written request for approval to accept additional waste types by Mr. James Caccese dated March 9, 1983. This revision is granted to allow Flowen Oil to accept certain additional waste types and shall be included as a Modified Condition 2 of the January 18, 1983 Amendment.

Condition 2 shall hence be modified and implemented as follows:

Waste types identified by NJDEP hazardous waste numbers, which Flowen Oil

-X721 Waste automotive crankcase and lubricating oils from automotive service and gasoline stations, truck terminals and garages.
 - X722 Waste oil and bottom sludge generated from tank cleanouts from residential/commercial fuel oil tanks.
- - X726 The following used and unused waste oils: metal working oils; turbine lubricating oils; diesel lubricating oils; and quenching oils.

Flowen Oil shall be conditionally permitted to accept waste types, X725 and X727 as follows:

X725 Oil spill cleanup residue which: a) is contaminated beyond saturation, or; b) the generator fails to demonstrate that the spilled material was not one of the listed hazardous waste oils. Acceptance of waste type X725 is conditional in that the waste shipment must be free-flowing and must be pumped into tanks 1-12 and/or tanks A or B upon arriving at the facility.

Under no circumstance shall contaminated soil, manifested under the waste type X725, be accepted by the facility.

X727 Waste oils from the draining, cleaning or disposal of electric transformers. Acceptance of waste type X727 is conditional in that the PCB content shall be determined for each waste shipment arriving at the facility and the shipment shall be accepted only if the PCB content is less than 50 ppm or less than any future concentration limit set by the Department or Federal agencies.

The NJDEP hazardous waste number for bottom sludge generated from the processing and treatment of waste oil is X728.

MODIFIED APPROVAL CONDITION FOR FLOWEN OIL DELAWARE VALLEY, INC., CAMDEN, CAMDEN COUNTY

-2-

Any waste oils containing PCB's (Polychlorinated Biphenyls) at a concentration greater than 50 ppm or greater than any future concentration set by the Department or Federal agencies; or; that is reactive or incompatible with permitted waste types shall not be accepted by Flowen Oil. A waste oil shipment containing PCB's at a concentration greater than 50 ppm or greater than any future concentration set by the Department or Federal agencies, or; is otherwise of a type which the facility is not authorized to handle shall be dealt with in accordance with N.J.A.C. 7:26-9.4(c).

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		Process Name	· Ket. 4
e	Item	Flocess Hame	ا ع نظر و Capacity
10.	Steel Tank	RECEIVING TANK	700 gal
23	Mono MD 80 Pump	YARD PUMPS	5000 gal/hr
	Steel Tanks (12)	WASTE OIL STORAGE	15,000 gal ea :
5-8	Steel Tanks (2)	PRE-PRODUCTION TANKS	15,000 gal ea
. 8	Mono MD 70 Pump	PRIMARY PUMP	1800 gal/hr
	Midcon Four Bank Heat Exchange	PRIMARY HEAT EXCHANGER	1800 gal/hr
10-13	Russel Finex Vibrating Filter	VIBRATING SIEVE	900 gal/hr
14-15	Receiving Tank .	BREAK TANK	750 gal
-17	Mono MD 70 Pump	SECONDARY PUMP	1800 gal/hr
18	Midcon Four Bank Heat Exchanger	SECONDARY HEAT EXCHANGER	1800 gal/hr
19-22	Sharples 1500 Gravitrol Centrifuge	CENTRIFUGE	900 gai
3-24	Mono MD 70 Pump	FLOWEN PUMP	1800 gal/hr
6-26	Centrifugal Pump	INTERMEDIATE WATER PUMP	4000 gal/hr
27 2	Steel Tank	SETTLING TANK	1700 gai
3-29	Centrifugal Pump	RECIRCULATION PUMP	4000 gal/hr
P	Midcon Two Bank Heaf Exchanger	WATER CALORIFIER	2 1800 gal/hr
31	Steel Tanks (4)	FLOWEN TANKS	25,000 gal ea
•			

Ref. 4 32069



CITY OF CAMDEN

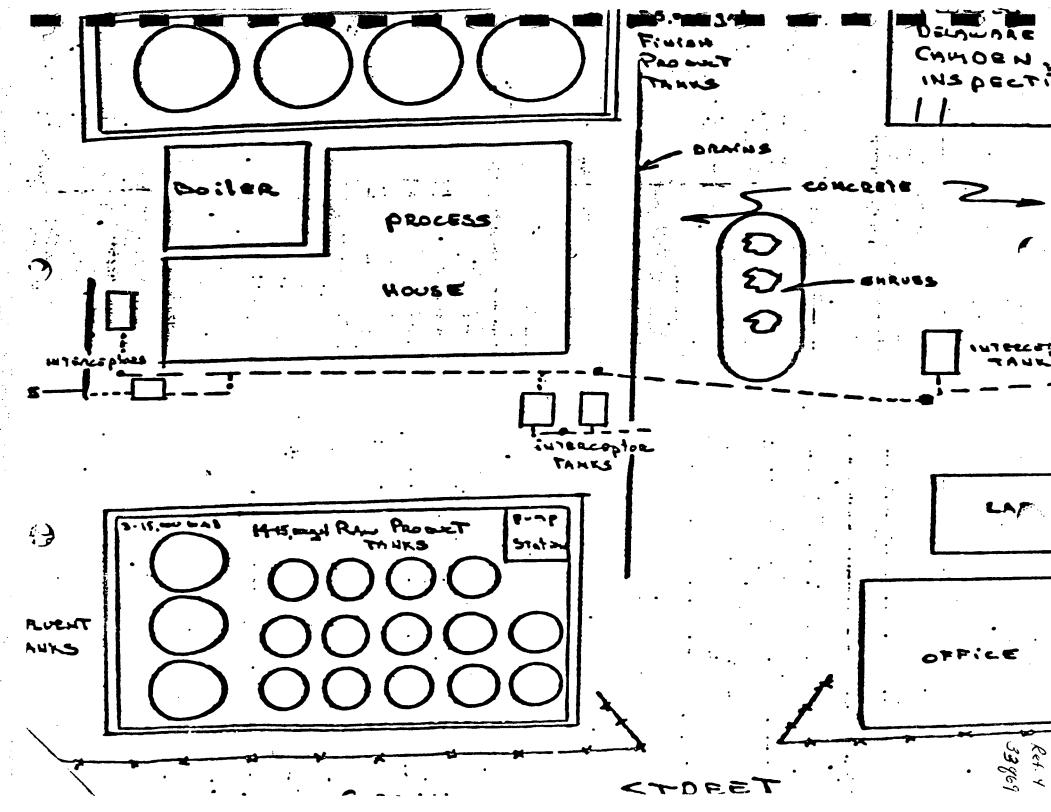
CONSTRUCTION ENFORCING AGENCY-DEPARTMENT OF COMMUNITY DEVELOPMENT

CONSTRUCTION PERMIT

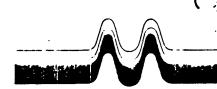
DATE ISSUED: August 17, 1981	PERMIT N81-30
APPLICANT: Flowen Energy Corp.	ADDRESS: P.O. Box 2440 Orange, Texas 77630
CONTRACTOR: Costanza Contractiong C	Co. ADDRESS: 6515 Crescent Blvd.
PHONE: 662-1000	Pennsauken, N.J.
LOCATION OF SUBJECT PREMISES: 18th & Ca	armen Streets.
(FOR OFFICIAL USE ONLY) foundat	ion work
Total permit costs. \$810.79	

Issued by:

LEONARD DIMEDIO Construction Official



Flower Oil Lelaware Valley Inc 34869



1800 Carman Street, Camden, N.J. 08105 • Telephone (609) 365-5544

June 7, 1982

New Jersey Department of Environmental Protection Solid Waste Administration 32 E. Hanover Street Trenton, New Jersey 08625

Gentlemen:

At approximately 4:55 P.M. on May 24, 1982, while transfering oil into our tank farm, a tank was overfilled resulting in a small oil spill of about 20-25 gallons. This was reported to Mr. E. Liu of the New Jersey D.E.P.

The oil was contained in our concrete dike area except for a few drops which the wind blew onto the grass outside the wall. The oil on the grass was wiped up with absorbent pads and the oil in the dike area was pumped into another tank.

We have contracted to have tank gauges installed to help prevent future spills.

Sincerely,

Ralph E. Stone/TM Technical Manager

Facility Registration #6408A

Bob Rittner called me at home at approximately 8:30 PM on above date and reported the following:

Camden City Fire Department had been called to a spill at 29th and Federal, Camden, yard of Penn Jersey Auto, at a location where we store 2 empty trailers. Valve had been opened by vandals and oil (perhaps 10 gallons) has been spilled onto ground (asphalt) and a small amount (perhaps 2 gallons) had spilled onto neighbors land adjoining. Local resident had called out fire service who called out Bob Rittner. Rittner had J. Leech cleaned up all free oil, none of which entered city sewer system.

On the morning of 8/21/85, the contaminated dirt on the resident's land was drummed (approximately ½ drum) and the dirt will be replaced at the earliest opportunity.

facility approached the Camden City Fire Service with concern over the tank-trailers parked at the Penn Jersey facility. At that time, we visually inspected the trailers and drained the residual oil contained in the tanks. The fire marshall declared himself satisfied that no potential for oil spillage existed. In the intervening period a person or persons unknown has placed approximately 500 gallons on one of the trailers without our knowledge or authority, and it was the oil which created the spill incident.

We have now removed the two tank trailers from the Penn Jersey facility and parked them at our main Camden recycling facility.

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3**5**469

1800 Carman Street Camden, N.J. 08105 • Telephone (609) 365-5544

July 26, 1984

RECEIVED

NJ DEP Southern Regional Office 100 Larwin Road Cherry Hill, NJ 08034

Attention: Mr. David Bute

JUL 30 1984

N.J. STATE BEST, OF ENVIRONMENTAL PROFESCTION LIVISION OF ENVIRONMENTAL QUALITY

Report of Spill

At approximately 6:00 AM on July 25, 1984, a spill of Flowen Oil (recycled used oil) occured at the corner of Haddon Avenue and Market St. in the City of Camden, NJ.

The driver of the vehicle Richard Murphy, immediately notified our Camden facility and a vehicle was dispatched to pick up as much oil as possible. Camden City Police Officer D. Darwerk Badge # 515 attended and called on the Camden County Highway Department to clean up the oil spilled on the highway, an amount of approximately 5 gallons. They attended the scene and sanded the oil, none of which entered the City sewer system.

The vehicle in question a Ford tractor license plate # XE85JP and the 7000 gallon trailer were returned to our facility at Carman Street and all remaining oil was cleaned off before the vehicle resumed its schedule.

The reason for the spill was that a 3" cap on the top of the trailer had been left off and on turning from Haddon Ave. to Market St. some oil had come out of the opening pipe.

David Bute the Duty Officer at DEP Southern Field Office telephone number 609-859-2958 was contacted and the spill reported.

Environmental Protection Agency Region II Office New York City, John LaPadula telephone number 212-548-8730 was contacted and given the requested information on the spill.

Page Two

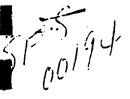
Our own employees then sweep up and collected the contaminated sand and returned it here to our Camden location where it is presently in drums. It will be disposed of through our normal solid waste contractor, Delaware Container Co. Inc. (West 11th Ave. and Valley Road, Coatsville, PA. telephone number 215-383-6600, contact person - Mike Canale) under a New Jersey Hazardous Waste Manifest.

In conclusion the spill was dealt with in a satisfactory manner with no residue remaining and the resultant contaminated material will be disposed of through the correct channels. No danger exists to water ways since none of the oil was spilled near a city sewer, and no rain fell during the incident, or the subsequent cleanup operation.

Sincerely yours,

Archie Bilsland General Manager

AB/sw





State of New Jersen

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E.

LINO F. PEREIRA DEPUTY DIRECTOR

MAY 14 1984

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

AMENDED NOTICE OF VIOLATION AND OFFER OF SETTLEMENT

DWM Case #83-12-15-04S

Flowen Oil Delaware Valley Corp. William T. Cahill Jr., Registered Agent 25 Chestnut Street Haddonfield, New Jersey 08104

Dear Mr. Cahill:

On or before December 15, 1983, as a result of negligence, on the part of Flowen Oil, a hazardous substance (waste oil) was discharged, at the Flowen Oil facility, located at 1800 Carmen Avenue, Lot 1, Block 1431, in the City of Camden, Camden County, onto the ground from which it might flow or drain into the waters of the State of New Jersey.

The incident summarized above was investigated by members of the Division of Waste Management, who determined that the following provisions of the Spill Compensation and Control Act and regulations promulgated thereunder were violated:

N.J.S.A. 58:10-23.11c

Discharging Hazardous Substances

N.J.S.A. 58:10-23.11e

Failure to Immediately Notify the Department of the Discharge [See N.J.A.C. 7:1E-2.1(a)]

The above cited violations carry maximum statutory civil penalties of \$25,000 per day for each violation.

Flowen Oil Delawa : lley Corp. William T. Cahill 🔪 , Registered Agent Page 2

· Lef. 4 59964

In accordance with the recommendations of the Department of Environmental Protection, and pursuant to the authority vested in me as Administrator of the New Jersey Spill Compensation and Control Fund by N.J.S.A. 58:10-23.11q, 1 am amenable to compromise and settle these claims for penalties for the sum of \$600.00.

Should you decide to settle this matter, payment must be made within fifteen (15) days of your receipt of this letter. Payment must be sent to the Administrator, New Jersey Spill Compensation Fund, Department of Treasury, One West State Street, CN 620, Trenton, New Jersey 08625. Only checks or money orders drawn to the order of "New Jersey Spill Compensation and Control Fund" will be accepted. Your cancelled check or money order will serve as your receipt.

Should you decide not to accept this settlement offer or fail to forward payment within fifteen (15) days of receipt of this letter, this offer is rescinded, and this matter will be referred to the Office of the Attorney General with instructions to initiate a legal action for the maximum allowable penalty.

Acceptance of this settlement offer will satisfy your liability for civil penalties in connection with the above cited violations but will not relieve you of any other responsibility or obligation under the law, including the responsibility to pay for any damages which may have been caused by the discharge.

If you wish to make any inquiries or discuss this settlement offer, you may contact Rai Belonzi, Bureau of Compliance and Enforcement, Division of Waste Management, at 120 Route 156, Yardville, New Jersey 08620 or at (609) 984-3695.

Very truly yours,

New Jersey Spill Compensation and Control Fund

Recommendation Approved By:

Joseph A. Rogalski Assistant Director

Division of Waste Management

N.J.D.E.P.

F01:F013:1mc

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State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E. DIRECTOR

LINO F. PEREIRA DEPUTY DIRECTOR

FEB 2 3 1984

Flowen Oil Delaware Valley Corp. William T. Cahill Jr., Registered Agent 25 Chestnut Street Haddonfield, New Jersey 08104

Re: Notice of Violation

Dear Mr. Cahill:

Pursuant to the Solid Waste Management Act, N.J.S.A. 13:1E-1, et. seq. and regulations promulgated thereunder, specifically N.J.A.C. 7:26-9.2(a) and 12.3(e)2, the following violations were observed:

During the course of routine facility inspections performed on December 9, 1983 and December 15, 1983, at the Flowen Oil Facility, #NJD980536577, it was noted that the facility violated N.J.A.C. 7:26-9.2(a)2, specifically, handling a hazardous waste in a manner which causes or may cause an unauthorized discharge of pollutants. Also noted, was a violation of N.J.A.C. 7:26-12.3(e)2, the facility failed to comply with all conditions and requirements of its Engineering Design, specifically the facility is using a transfer line that is not included in its Engineering Design.

These violations have been recorded as part of the permanent enforcement history of your facility.

Within 15 days of receipt of this Notice of Violation, you shall submit in writing, to the Bureau of Compliance and Enforcement, Attention of Rai Belonzi, at the above address, the correct measures you have taken to attain compliance.

Flowen Oil Delawa Valley Corp. Page 2

The Department of Environmental Protection has chosen not to prosecute the violations noted on the above date but does not relinquish its right to do so in the future. Kef. 9 44 8 69

This letter will serve to advise you that any further violations of N.J.A.C. 7:26-1 et. seq. are subject to a maximum penalty of \$25,000 per day in accordance with N.J.S.A. 13:1E-9.

Should you have any questions regarding this matter, contact Rai Belonzi at (609) 984-3695.

Very truly yours,

David J Shotwe

Chief Bureau of Compliance and Enforcement

F010:F013:1mc



Biff FYJ - Fix Hw/arth 0408B

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 32 E. Hanover St., CN 027, Trenton, N.J. 08625

JACK STANTON DIRECTOR

1 9 APR 1983

LINO F. PEREIRA

Mr. James Caccese Production Manager Flowen Oil Delaware Valley, Inc. 1800 Carman Street Camden, New Jersey 08105

RE: Discharge of oil into the Camden storm drain system

Dear Mr. Caccese:

Regarding your letter of April 11, 1983 in which you reported that due to the failure of one of your oil-water separators, oil was discharged into the city storm drain system, the following additional information is requested:

- 1. Identify specifically which one of your five oil interceptor tanks was involved in this incident.
- 2. Describe the corrective steps taken to alleviate the problem that was noted on March 30, 1983; and detail the measures taken to assure that this problem does not recur in the future.

If you should have any questions, please contact Hr. Benjamin Esterman of my staff at (609) 984-4061.

Very truly yours,

Frank Coolick, Chief .

Bureau of Hazardous Waste Engineering

FC:BE:jb

c W. Lowry w/attachment

Ref. 4 43 869

1800 Carman Street, Camden, N.J. 08105 • Telephone (609) 365-5544

January 19, 1983

Division of Waste Management Department of Environmental Protection 32 E. Hanover Street CN 027 Trenton, New Jersey 08625

Re: Report of incident at Flowen Oil Delaware Valley, Inc.

December 17, 1982

Attention: David E. Bute

At 5:40 AM on December 27, 1982 our Process Operator Robert Rittner arrived for work. On going around the site he heard splashing in the finished product area. He immediately investigated and found that tank sampling valves on all four finished product tanks had been opened, and oil was being discharged into the tank containment area. On checking the raw material tanks the same situation was found.

He immediately called the writer and informed him of the situation. He then set about closing all the open valves. As mentioned previously, all four finished product tanks had been opened and the valves on the raw material tanks numbers 1 thru 9 had also been opened.

All the spilled oil had been discharged into the tank containment areas, with none escaping to the surrounding land or Flowen site.

At 6:50 AM the writer arrived on site and personally set about organizing the return of raw material to the storage tanks. This job was completed at approximately 1 PM and we returned 41,000 gallons of product to storage.

At approximately 7:30 AM the writer interviewed the guard on duty from K-9 Guard Service, 1102 Fairview St., Camden, N.J. 08104 who claimed to have heard nothing during his term of duty from 8 PM Sunday, December 26th to the time of the interview.

At approximately 8 AM the Camden City Police Department were informed of the incident and at approximately 8:30 AM Patrolman A. George from the department arrived to make a preliminary report.

At 7:30 AM the collection drivers arrived to start their days work and it was then discovered that all four collection vehicles had been tampered with. In three out of four cases, ignition keys had been removed, and in all four cases parts of the brake airline system around the rear axles had been removed, thereby immobilizing the vehicles.

At approximately 9 AM Ms. Susan Savoca at the Department of Environmental Protection in Trenton was informed of the incident. She stated that she would have an inspector call to make a report. At approximately 10 AM David E. Bute from DEP arrived on site, investigating an oil discharge into the Cooper River. After contacting his office he also agreed to investigate and report on the spill as here reported.

At approximately 1 PM we started moving products from the finished product containment area and moved it to raw material storage for reprocessing. We removed approximately 15,000 gallons from the finished product area. This job was completed at approximately 4 PM.

We restarted production at approximately 5 PM.

The net result to Flowen Oil of the incident was that a delay of approximately two days occured. One day was spent replacing spilled oil into tanks, and the second day was spent reprocessing the oil spilled into the finished product area.

In addition to this, approximately 11 trucking days were lost due to the time required to repair the trucks, and the delay in obtaining certain spare parts. Also 12 man days were lost due to the work required in cleaning up after the oil had been returned to storage tanks, and the lack of truck availability.

Certain steps have been taken in order to make the Flowen Oil site more secure during the hours of darkness. Firstly a guard dog was introduced between the hours of 10 PM and 8 AM, tethered on a long leash. This dog should give the guard also on duty a warning that when strangers are on or around the site. Additionally, other security measures are being investigated which will give an electronic and/or audible warning when entry is made or attempted to the site.

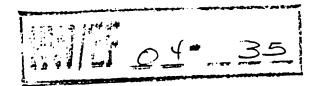
This incident although most disruptive to Flowen Oil caused no hazard or nuisance to Flowen Oil's neighbors. All the spilled oil was contained within the tank containment areas, and no nuisance or danger was caused through fumes or smell in the atmosphere.

Sincerely yours,

Archie Bilsland Manager

AB/tm

1800 Carman Street, Camden, N.J. 08105 • Telephone (609) 365-5544



June 7, 1982

New Jersey Department of **Environmental Protection** Solid Waste Administration 32 E. Hanover Street Trenton, New Jersey 08625

Gentlemen:

At approximately 6:00 P.M. on June 1, 1982 while transfering oil into a tank at our tank farm, a tank was overfilled resulting in a small oil spill of about 25 gallons. The incident was reported to Mr. Kirchof of your office at 6:45 P.M.

The oil was contained in our concrete dike area except for about 5 gallon which splattered onto the ground outside the dike area. Absorbent material was spread on the ground area and subsequently disposed of in a dry waste container.

Our contractor will start to install gauges on our tanks this week. The gauges will help to prevent future spills.

Sincerely,

Ralph E. Stone/TM

Technical Manager

Facility Registration #6408A

1. Store 1971.

THE CAMDEN COL TY MUNICIPAL UTILITY 5 AUTHORITY

FERRY STATION BLOG - SUITE 409 1800 EAST DAVIS STREET CAMDEN, NEW JERSEY P.O. BOX #1432 CAMDEN, NEW JERSEY 08101 (609) 962-8700

47869

EMAN B. FNGELBERT
Executive Director
JOHN G. STROKA. P.E.
Ingineer/Ceputy Director
DROTHY E. MARKS
ECTELARY to the Authority
EASARE D. NAPOLIELLO
Aministrative Assistant
MAS S. HIGGINS. ESQ.
Solicitor



ANTHONY C LOPRESTI
Chairman
MOSES JACKSON
Vice-Chairman
JOHN W. SHORTER
Commissioner
VICTOR PACHTER
Commissioner
JOSEPH N PETRUZZI
Commissioner

March 5, 1981

Mr. Joseph Forte Flowen Oils, Delaware Valley Inc. Cherry Hill Inn - Suite 262 Cherry Hill, New Jersey

Dear Mr. Forte:

This letter will acknowledge that your engineer, Fisher and Sampson, contacted the Camden County Municipal Utilities Authority through its Chief Engineer, Mr. John G. Stroka. Mr. Fisher requested approval of the CCMUA for water waste discharge into the CCMUA system.

On the basis of data submitted, Mr. Stroka advised Mr. Fisher that he would recommend favorable action to the CCMUA...

This letter is to confirm that the Executive Staff will so recommend, based upon data verbally submitted to Mr. Stroka, the approval sought from the Commission.

Please submit your formal application as soon as the New Jersey Department of Environmental Protection has officially set your public hearing date.

Very truly yours

Herman B. Engelbert Executive Director

cc:--Alfred Pierce, Esq. John G. Stroka, P.E.

mm

Ref 4 48 869



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State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 32 E. Hanover St., CN 027, Trenton, N.J. 08625

JACK STANTON DIRECTOR LINO F. PEREIRA DEPUTY DIRECTOR

Honorable Walter Rand Senator, 5th District 514 Cooper Street Camden, New Jersey 08102

Dear Senator Rand:

As the Director of the newly established Division of Waste Managment, your letter of June 24, 1982 to Robert E. Hughey, Commissioner of the Department of Environmental Protection, has been referred to me.

In response to your letter, the Department of Environmental Protection finds that the Hazardous Waste Facility Siting Act, Planete Bill S-1200 respection Flower Oil in the following manner.

facility Existing facility status, as defined in S-1300, has been granted to Flowen because the company had obtained their permit to operate prior to the effective date of S-1300, which was september 10, 1981. Flowen obtained their permit to operate on June 15, 1981. A major facility classification has been made based upon the approved engineering designs, which reflect that Flowen has the capacity to store 255.000 gallons for the Department considers a facility major if the onsite hazardous waste storage capacity is greater than 250,000 gallons. Please be advised that the 255,000 gallon figure does not find the exact amount of storage available in these tanks cannot be determined at this time.

As an existing major hazardous waste facility, Flowen is not subject to siting as outlined in S-1300. There are, however, other sections which apply to an existing facility. The following applies to, but need not be limited to, an existing major hazardous waste facility:

1. All construction shall be in compliance with the "State Uniform Construction Code Act", PL 1975, C-127 (C. 52:27D-119 et seq.).

- Owner or operator must provide evidence of financial responsibility and establish a closure fund mechanism.
- 3. "All major hazardous waste facilities shall, for the purposes of local property taxation, be assessed and taxed in the same manner as other real property".
- 4. Subject to a tax equal to 5% of the gross receipts from the hazardous waste operations to be submitted to the municipality in which the facility is located.
- Subject to periodic inspections to be conducted by local, county, and/or state officials.

Please be advised that an existing major hazardous waste facility is subject to the Hazardous Waste Regulations (N.J.A.C. 7:26-7.1 et seq.).

If you have any questions regarding this matter, please contact Mr. Frank Coolick, Chief, Bureau of Engineering Review and Permits (hazardous waste) at (609) 292-6891.

Sincerely yours,

Jack Stanton Director Division of Waste Management

JS:jb

cc Joseph Forte, President Flowen Oil Company 1800 Carmen Street Camden, New Jersey 08105

> Lino F. Pereira Edward J. Londres Frank Coolick



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, NEW YORK 10278-0012

Note to the file

Subject: Camden Municipal Wells, NJD980769087, and Puchack

Wellfield, NJD981084767 as Alias Sites

Date: August 12, 1993

This memorandum is to document that both Camden Municipal Wells and Puchack Wellfield are to be made aliases of the sites listed below. The rationale is that both the Camden and Puchack sites are not sources of contamination, but rather they are targets most likely affected by the sites listed below. These seven sites were listed as potentially responsible parties in the 12/31/89 Site Inspection for Camden Municipal Wells. The Puchack Wellfield is located within the area identified as the Camden Municipal Well site. It is expected that, in addressing the sites listed below, the area-wide groundwater contamination problems represented by the Camden and Puchack sites will be addressed.

The Preliminary Assessments (PA) and Site Inspections (SI) conducted at the Camden and Puchack sites were conducted prior to 1989. Therefore, while these events will become part of the event history at each of the seven sites listed below, they will not be counted as additional accomplishments.

Sites to which Camden Municipal Wells and Puchack Wellfield will become alias:

SGL Modern Hard Chrome Service, NJD002356475.

Swope Oil & Chemical Co., NJD041743220.

Aluminum Shapes Inc., NJD002338267.

Conrail Pavonia Engine Yard, NJD980769095.

Flowen Oil Delaware Valley Corporation, NJD980536577.

Classic Chemical, NJD070280904.

Harrison Avenue Landfill, NJD980527956.

MaryLatta 8/12/93

MEMO

NEW JERSEY STATE DEPARTMEN

ENVIRONMENTAL PROTECTION

MEMA		•		Ket. Y
TO	Ronald T.	Corcory	·	51869
		1100		

			•	L
FROM	Steve Carfora SC	DATE	10/3/83	
SUBJECT_	Flowen Oil and William Uhl	′		

On Monday, 8/29/83 and Thursday, 9/1/83, I had telephone conversations with Al Pierce, a lawyer and regional representative, who is employed by Flowen Oil of Camden, NJ (609-966-4633 or 609-962-7100). Pierce obtained my name and phone number through John Purvis who used to work for the NJDEP and is now employed by the Camden County Solid Waste Department. The information Pierce gave me is summarized below. It may be of interest to BFO's Southern Field Office and possibly to the Division of Criminal Justice (DCJ).

When Pierce called on 8/29/83, he was quite agitated about the fact that Flowen had recently hired someone named William Uhl to be plant manager. He felt that Uhl had a bad reputation and was worried about the possibility that the NJDEP might try to revoke Flowen's hazardous waste transporter license and/or facility permit because someone with Uhl's background and reputation was now associated with Flowen.

Pierce said that Uhl was previously, and possibly still is, in the waste oil transporting business in New York and Pennsylvania. At least one company Uhl is connected with is Central Waste Oil of Rochester, NY. Pierce also mentioned a Pottstown, PA location.

Pierce said that Uhl approached and negotiated with Flowen's majority stock-holders who are based in Texas and who are responsible for operating the Camden plant and arrived at an agreement which included the following, and possibly other, conditions:

- 1. Uhl was named general manager of Flowen's Camden facility and was given authority over the day to day operation of both the facility and the waste transportation end of the business.
- 2. Uhi leased 10 of his Central Waste Oil waste oil transporting vancias to flowen and these vehicles were in turn licensed with the NJDEP to haul waste oil under Flowen's name. According to Pierce, one condition of this leasing arrangement was that Uhl be named general manager.

Pierce was very concerned about the above agreement because:

- Even though Uhl's background and experience is as a waste hauler and not as a facility operator, Uhl insisted on being given the authority to run the facility.
- 2. He was concerned that Uhl may pick up some "bad" loads of waste oil and bring them to Flowen.

On 9/1/83, Pierce called me back and informed me that he gave Uhl a 30 day termination notice the day before (Wednesday, 8/31/83). He was able to do this, he said, because he convinced the Texas stockholder group that if

A of a land

Flowen wants to maintain a good image it should not employ someone with Uhl's questionable background. Pierce said that Flowen will no longer lease Uhl's vehicles but will attempt to purchase them outright. He also said that, in connection with this matter, Joseph C. Norman, a representative from the Texas stockholder group, was coming to the Camden facility on September 12.

On Monday, 9/26/83, I contacted Leonard Tritt of the Pennsylvania Department of Environmental Resources (PADER). He gave me the following information about Uhl which he personally knew about or which he obtained from Frank Murphy of the New York Department of Environmental Conservation (NYDEC).

Central Waste Oil, Inc. (CWO) is owned by Uhl. It is headquartered in Rochester, NY and has a terminal in Pottstown, PA. Uhl has a number of suspected or confirmed connections with other waste oil firms, namely:

- 1. Smith & Lockwood Oil (Uhl's sister-in-law, Lois Smith, is a business partner with Hoot Lockwood in this company)
- Berks Associates (of Pennsylvania)
- 3. Booth Oil (NY)
- 4. Monoco Oil (NY)
- 5. Calleia Brothers (NY)

Tritt said that the NYDEC considers CWO "somewhat shaky" and CWO is the subject of some suspicions and/or investigations in PA and NY.

Comments

My major concern about this matter is that someone might have been behind Uhl's efforts to get a position of responsibility with Flowen, or may have even coerced Uhl to do what he did. This is where DCJ may come in.

TIPP PIL - - TIE MUTCH

3869

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO	Ron Corcory, Chief, BFO	
FROM	Frank Coolick, Chief, BWHE	DATE June 8, 1983
		DATE June 8, 1983 nc. Lamden, N.J., Draining, cleaning,
SUBJECT	and inspection schedule for oi	1 interceptor units

The BHWE was notified by Flowen Oil Delaware Valley, Inc. that on Murch 30, 1983, they experienced a failure of one of five (designated #1) of their oil-water separators which caused oil to discharge into the City storm drain system. The cause of the failure was attributed to clogging of the water discharge pipe from this interceptor by accumulated sludge which allowed the water to back up causing the oil to discharge into the water stream through an overflow line in the City sewer system.

A visit was made to the site on April 21, 1983 by Mr. E. Kuhlwein, B. Esterman and W. Lowry at which time the matter was discussed with Mr. James Turpin, General Manager of Flowen Oil. He explained the circumstances of the incident and the corrective action taken. Mr. Turpin also stated during the visit that to prevent future recurrences, the #1 interceptor would be tied into series with the #2 unit thus providing a mechanism so that if the #1 unit malfunctioned, the overlfow would not go directly into the City sewer system.

As requested, Flowen Oil submitted a letter (copy enclosed) further detailing the corrective steps taken by them following the oil discharge incident and outlining measures taken to prevent recurrences of this type incident. The preventative measures proposed include more frequent scheduled draining, cleanout, and inspection of the oil interceptors to insure proper functioning of these units. The tie-in of the #1 unit in series with #2 is being delayed to an unspecified future date.

This information is being brought to your attention with the recommendation that future inspection trips to flowen Oil include examination of their operating logs to ascertain whether the oil-water separators are actually being serviced according to their proposed schedule in order to prevent possible spillage of oil into the Camden storm drain system; especially since the connection of the #1 unit to the #2 unit is not presently being implemented.

FC:BE:jb

Enclosure

c: W. Lowry

Charlie Hunding

CITY OF CAMDEN

CONSTRUCTION ENFORCING AGENCY -- DEPARTMENT OF COMMUNITY DEVELOPMENT

Room 101 - City Hall - Camden, N. J., 08101 405 (609) 757 - 7875 7031

INTER-OFFICE RETURN REFE	RRAL MEMORANDUM
APPLICATION NO: 81-30 7-24-81 DATE RECEIVED: SCOPE OF REVIEW Construction Permit Certificate of Occupancy Zoning	SUBCODE OFFICIAL [] Building [] Electrical [] Fire [] Plumbing RESULTS OF REVIEW Approved [] Rejected: For the reasons stated below
[x] Other Fee	
(REASONS FOI	R REJECTION)
\$154.00 Sewer Conn	. 100.00
Plan	5.00
Permit	10.00
Fixtures	39.00
•	154.00
•	•
DATE RETURNED:	SUBCODE OFFICIAL: (Building, Plumbing, etc.) SIGNATURE:

MEMO

NEW JERSEY STATE DEPARTMENT OF LONGENTAL PROTECTION

TO	Keith Onsdorff, Assistant Director		fun -	7,20
FROM	Susan Savoca	DATE	1/5/83	
SUBJECT	Flowen Oil Delaware Valley			

On the morning of Monday, December 27, 1982 (at about 10:00 a.m.), "Al Pierce" of Flowen Oil (Camoen County) called John Purves. In John's absence, I took the call. Mr. Pierce informed me that during the night of December 26, 1982 the facility had been broken into and property had been damaged; i.e. hoses were severed, sugar was put in vehicle gas tanks, valves had been opened. This occurred in spite of the presence of a 24 hour security guard. Mr. Pierce opined that it was a "professional job." Upon my inquiry, Mr. Pierce told me that the spillage had been contained in the facility's reservior and that it was now being cleaned up. According to Mr. Pierce, the police were informed of the occurrence. Mr. Pierce solicited DEP's assistance in finding the perpetrator but I informed him that this agency does not undertake police investigations.

I immediately transmitted the above information to Charles Krauss (DWM, Southern Field Office) and Dave Longstreet (DWM, Northern Field Office). (Note that Mr. Longstreet was contacted because Quanta's oil is being taken to Flowen). I requested Charles Krauss to send an inspector to investigate the matter (which he did).

At about 11:15 a.m. on December 27, 1982, Charlie Krauss telephoned me to advise me that an oil spill in the Cooper River over the weekend is being traced by the Coast Guard through the sewer system. The source appears to be the Flowen facility.

I advised Jerry Bruke of these events (in the absence of Keith Onsdorff and Mike Marotta) and telephoned the information to Joe Rogalski.

I then called Trenton Dispatch (2-7172).. Franklin Nicoloudakis said he received a phone call on December 22, 1982 about an oil spill in Camden along the Admiral Wilson Blvd. near the bridge by the Merritt station. Spill was on the shore and in the Cooper River. John Bailey 541-9683, citizen, phoned the complaint and opined that it was No. 6 oil. No call was received by Trenton Dispatch regarding a spill at Flowen.

I then contacted Barbara Greer, who indicated she winform the Division of Criminal Justice about these even

About 12:30 p.m. on December 27, 1982, I called Floward spoke to Al Pierce. Mr. Pierce indicated that the feword be able to accept the Quanta oil today. DEP inspectors Bute was at the facility and informed me that the dewas "considerable" but that as far as he could tell no we had escaped the containment area.

On December 28, 1982, I spoke to Bif Lowry who advise that he will follow-up on this matter.

Susan Savoca

SS/sje

cc: Director Catania
Jerry Burke
Mike Marotta
Barbara Greer
Joseph Rogalski

John Purves
Dave Longstreet
Flowen File
Quanta File

DRAFT

CONFIDENTIAL - NOT FOR PUBLIC RELEASE

Site Name: Delaware Valley Corp.

NOV 06 1990

PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

-						
	T	SOURCE TYPE	SINGLE	SOURCE SITES (assigned WC	scores)	MULTIPLE SOURCE SITES
	R	SOUNCE TIPE	WC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
		N/A	≤ 100 lbs	> 100 to 10,000 the	> 10,000 lbe	los + 1
	**************************************	N/A	. ≤500.000 lbs	> 500,000 to 50 million lbs	>50 million lbs	/bs + 5,000
		Landfill	≤6.75 million ft² ≤250,000 yd²	>6.75 million ft ³ to 675 million ft ³ >250,000 to 25 million yd ³	>675 million ft ³ >25 million yd ³	ft ² + 67,500 ya ³ + 2,500
	v	Surface impoundment	≤6.750 ft³ ≤250 yd³	> 6.750 fc ¹ to 675,000 fc ² > 250 to 25,000 yc ²	> 675,000 ft ³ > 25,000 yd ³	ft + 67.5 yo + 2.5
	0 L	Drums . 1,000 dru		>1,000 to 100,000 drums	>100,000 drums	drums + 10
	U . M	Tanks and non- drum containers	≤50,000 gallone	>50,000 to 5 million gallone	>6 million gallens	gattons — 500
		Contaminated soil	≤6.75 million ft³ ≤250,000 yd³	> 6.75 million ft ³ to 675 million ft ³ > 250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ³	fr + 67,500 yd + 2,500
		Pile	≤4,750 ft² ≤250 yd²	>6.750 ft ² to 675,000 ft ² >250 to 25,000 yd ²	> 675,000 ft ² > 25,000 yd ³	ft ³ + 67.5 yd ³ + 2.5
		Landfill	≤340,000 tt ² ≤7.8 acres	>340,000 to 34 million ft ¹ >7.8 to 780 eares	>34 million ft ² >780 ecree	ft + 3,400 acres + 0.078
	•	Surface impoundment	≤1,300 ft ² >1,300 to 130,00 ≤0.029 cores >0.029 to 2.9 co		>130,000 ft ² >2.9 scree	fr + 13 acres + 0.00029
	REA	Contaminated soil	≤3.4 millen ft ³ ≤78 ecres	>3.4 million to 340 million ft ² >78 to 7,800 scree	>340 million ft ² >7,800 acres	fr ² + 34,000 acres + 0.78
	~	Pile*	≤1,300 ft² ≤0.029 acres	>1,300 to 130,000 ft ² >0.029 to 2.9 scree	>130,000 ft ² >2.9 scres	ft + 13 acres + 0.00029
	<u>.</u>	Land treatments	≤27,000 ft ¹ ≤0.62 seres	> 27,000 to 2.7 million ft ² > 0.62 to 62 cores	>2.7 million ft ² >62 acres	fr ² + 270 acres + 0.0062

¹ ton = 2,000 lbs = 1 yd³ = 4 drume = 200 gallons

PA Table 1b: WC Scores for Multiple Source Sites

WQ Total	WC Score
>0 to 100	18
> 100 to 10,000	
>10,000	100

^{*} Use area of land surface under pile, not surface area of pile.

Ref. 4 53869

DRAFT CONFIDENTIAL - NOT FOR PUBLIC RELEASE

100

Site Name: Flower Oil Delaware Valley Corp.

NOV 0 5 1990

GROUND WATER PATHWAY SCORESHEET

	Do you suspect a con			_
	Do you suspect a release (see Ground Water Pathway Criteria List, page 7)? Is the site located in karst terrain?	Ye	_/	_
	Depth to aquifer:			
	Distance to the nearest drinking-water well:	16		
	direct drinking-water well:		30	
				1
1	LIKELIHOOD OF RELEASE	A	8	•
	CINCULTUDO OF RELEASE	Suspected	No Suspected	7
	SUSPECTED BEI BASE. IA	Release	Release	Reference
1	SUSPECTED RELEASE: If you suspect a release to ground water (see page 7), assign a score of 550, and use only column A for the page 7).			
1	and constant to this bathway.	550		
1	2. NO SUSPECTED RELEASE: If you do not suspect a release to ground water, and the site is in karst terrain or the depth to adjute to 70 feet		200 e 200	
1	the site is in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 500; otherwise, assign a score of 340.	4	1	
L	of 500; otherwise, assign a score of 340. Use only column 8 for this pathway.	Page Californ		•
	the penimey.	:	f ·	
	'LR =	ঠ্যত		
_	ARGETS			•
3	PRIMARY TARGET POPI II ATION . D.		Ţ,	
1	PRIMARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you suspect have been exposed to hazardous substances from the size (see Green Wood).	-		
	substances from the site (see Ground Water Pathway Criteria List, page 7).		1	
]	
4	SECONDARY TARGET 2000			
	SECONDARY TARGET POPULATION: Determine the number of people served by	•	1 7	
ŀ				
	Table 7			
	Are any wells part of a blended system? Yes \(\sqrt{No} \)	1735		
	If yes, attach a page to show apportionment calculations.			3,4,12-1
5.	NEAREST WELL: If you have identified any Primary Targets for ground water,	116.36.16.6.1.2 G	120,10 0 5 3 2 0 00	-7.17.
			ļ	
	PA Table 2. If no drinking-water wells exist within 4 miles, assign a score of zero.	9		
6.	WELLHEAD PROTECTION AREA MALEN	120. S Q	1/0 1 0 4	
	WELLHEAD PROTECTION AREA (WHPA): Assign a score of 20 if any portion of a designated WHPA is within % mile of the site; assign 5 if from % to 4 miles.			
_	to 4 miles.	0		
7.	RESOURCES: A score of 5 is assigned.	4	W	
		5	5	
		17110		
	Τ-[1749	<u> </u>	
W	ASTE CHARACTERISTICS			,*
Я	A If you have identify A	1100 - 35		
•	A. If you have identified any Primary Targets for ground water, assign the waste characteristics score calculated an account	1.002	ya 📗	
	characteristics score calculated on page 4, or a score of 32, whichever is GREATER: do not evaluate part 8 of this factor.			
	and the contract part is of this factor.			
	8. If you have NOT identified any Primary Targets for ground water, assign the	(166.36.0 16)	1100 11	
	waste characteristics score calculated on page 4.			• •
-		32		
	wc - [<i>3</i> 2		
GR	OUND WATER PATHWAY SCORE: LR x T x WC	(edison 1) e esp		
	TATE PAINWAY SCORE: 1 LR x T x WC		ľ	

82,500

Site Name: Flower Oil Z Date: Oclawarz Valley Bip.

PA TABLE 2: VALUES FOR SECONDARY GROUND WATER TARGET POPULATIONS

PA Table 2a: Non-Karst Aquifers

f		Nearest		Population Served by Walls Within Distance Category									
Distance from Site	Population	Well jchoose highesti	. 1 <u>.</u> to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3.000	2,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	Population Value
O to X mile	_0_	20	i	2	6	16	52	163	521	1,633	5,214	16,325	_0_
> K to K mile	_0_	18	1	1	3	10	32	101	323	1,012	3,233	10,121	_0_
> % to 1 mile	7941	③	1	1	2	6	17	52	(67)	522	1,669	5,224	167
>1 to 2 miles	35,474	5	1	1	1	3	9	29	94	294	939	2,938	939
>2 to 3 miles	13714	3	1	1	1	ż	7	21	68	212	678	2,122	212
>3 to 4 miles	<u>60,518</u>	2	1	1	1	1	4	13	42	131	(17)	1,306	417
Nearest Well = 9								1735					

PA Table 2b: Karst Aquifers

Mearest Papulation Served by Wells Within Distance Category													
ĺ		Well	1	11	31	101	301	1,001	7001	10,001	30,001	100,001	
Distance		luse 20	20	10		, 60	\$e	to	to	to .	10	to	Population
from Site	Population	for karst)	10	30	100	300	1,000	3,000	10,000	30,000	100,000	300.000	Vako
	• ; .										_		
O to K mile		20	1	2	5	16	52	163	521	1,633	5,214	16,325	<u> </u>
					_								
> X to X mile		20	1	,	3	10	32	101	323	1,012	3,233	10,121	
		••			3		26	82	261	816	2,607	8,162	
> % to 1 mile		20	•	'	•	•	20				2,00,	0,102	
>1 to 2 miles		20	1	١,	3		26	82	261	816	2,607	8,162	
1 10 2 11 1100			•	,	•								
>2 to 3 miles		20	1	1	3		26	82	261	816	2,607	8,162	
>3 to 4 miles		20	1,	1	3	8	26	82	261	816	2,607	8,162	· - · - ·
t				•									
	Nearest Well =										Score =		

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Site Name: Flower Oil Date:

Delaware Valley Corp. 600 69

Ref. 4

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SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT SCORESHEET

Pethwey Cherecteristics	
Do you suspect a release (see Surface Water Pathway Criteria List, page 11)?	Yes V No
Distance to surface water:	11.880 11
Flood Frequency:	<u>500yrs</u>
What is the downstream distance to the nearest drinking-water intake? NA miles	
nearest fishery?milesnearest sensitive environment?miles	

	nearest fishery?milesnearest s	ensitive environment?	miles		
				8	
LIK	ELIHOOD OF RELEASE		Suspected Release	No Suspected Release	References
1.	SUSPECTED RELEASE: If you suspect a release to assign a score of 550, and use only column A for t		550		
2.	NO SUSPECTED RELEASE: If you do not suspect a the distance to surface water is 2,500 feet or less, wise, assign a score from the table below. Use on	a release to surface water, ar , assign a score of 500; othe	r•	(500), 408, 309 er (00)	
	Floodplain	Scare			
	Site in annual or 10-yr floodplain	500			
	Site in 100-yr floodolain	400	1 . %:	1	1
	Site in 500-vr floodplain	300			1
	Site outside 500-vr floodglain	100		I	
	Determine the water body types, flows (if applicate by all drinking-water intakes within the 15-mile tail drinking-water intakes within the target distance lift of 5 at the bottom of this page (Resources only) a	ple), and number of people serget distance limit. If there a mit, assign a total Targets so	ire ua		
	Intake Name Water Body Ty	pe Flow People Sen	700		
		cfs cfs			
4.	PRIMARY TARGET POPULATION: If you suspect above has been exposed to hazardous substances Pathway Criteria List; page 11), list the intake nat score based on the number of people served.	from the site (see Surface V	Nater		

above has been exposed to hazardous substances from the site (see Surface Water Pathway Criteria List; page 11), list the intake name(s) and calculate the factor
score based on the number of people served.

5. SECONDARY TARGET POPULATION: Determine the Secondary Target Population score from PA Table 3 based on the populations using drinking-water from intakes that you do NOT suspect have been exposed to hazardous substances from the site.

> Are any intakes part of a blended system? Yes If yes, attach a page to show apportionment calculations.

- 6. NEAREST INTAKE: If you have identified any Primary Targets for the drinking water threat (Factor 4), assign a score of 50; otherwise, assign the Nearest Intake score from PA Table 3. If no drinking-water intake exists within the 15-mile target distance limit, assign a score of zero.
- 7. RESOURCES: A score of 5 is assigned.

(10.30.10.2.1, a 4	(38.16.2.1. a 4
0	
5	1H 5
5	I

Date: Delaware Valley Co

PA TABLE 3: VALUES FOR SECONDARY SURFACE WATER TARGET POPULATIONS

		Nearest				opulation	Served by	Intakes	Nithin Flor	n Calador	γ			
Surface Water Tody Flow Characteristics		Antake (choose	1	31 . w	101	301 to	1,001	1,001 to	10,001	30,001	100,001 to	10	1,000,001 10 1,000,000	Population
see PA Table 4)	Population	Micheell	- 35	100	300	1,000	3,000	10,000	30,000	100,000	300,000	1,000,000		
< 10 cfs		20	2	- 6	16	52	163	621	1,633	5,214	16,325	52,136	163,246	
10 to 100 cle		2	1	1	2	5	16	52	163	521	1,633	5,214	16,325	
> 100 to 1,000 cfs		1	٥	0	1	1	2	5	16	52	163	521	1,633	
> 1,000 to 10,000 cfs		0	٥	٥	٥	0	1	1	2	6	16	62	163	
> 10,000 cfs or Great Lakes		0	0	o	0	0	0	o	1	1	2	5	16	
3-mile Mixing Zone		10	1	3	8	26	82	261	816	2,607	8,162	26,068	81,663	
Near				*							5	core =		

PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

Type of Sur	face Weter Bode	Dilution
Water Body Type	OR Flow Characteristics	Weight
minimal stream small to moderate stream moderate to large stream large stream to river large river	flow jess than 10 cfs flow 10 to 100 cfs flow greater than 100 to 1,000 cfs flow greater than 1,000 to 10,000 cfs flow greater than 10,000 cfs	1 0.1 N/A N/A N/A
3-mile mixing zone of quiet flowing streums or rivers	flow 10 cfs or greater	N/A
constal tidal water (harbors, sounds, bays, etc.), ocean, or Great Lakes	N/A	N/A

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Site Name: Flower Oil

Delaware Valley Corp.

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SURFACE WATER PATHWAY (continued) **HUMAN FOOD CHAIN THREAT SCORESHEET**

	Α	8	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Reference
Enter the Surface Water Likelihood of Release score from page 12.	.ssa 550	1502, 409,300 er 1000	
HUMAN FOOD CHAIN THREAT TARGETS			
8. Determine the water body types and flows (if applicable) for all fisheries within the 15-mile target distance limit. If there are no fisheries within the target distance limit, assign a Targets score of 0 at the bottom of this page and proceed to page 15.			
Fishery Name Water Body Type Flow		ķ	
Nelaware River Tidally Affected River Tidats			
9. PRIMARY FISHERIES: If you suspect any fishery listed above has been exposed to hazardous substances from the site (see Surface Water Criteria List, page 11). assign a score of 300 and do not evaluate Factor 10. List the Primary Fisheries:	(300 e q		
			<u> </u>
10. SECONDARY FISHERIES: If you have not identified any Primary Fisheries, assign a Secondary Fisheries score from the table below using the LOWEST flow at any fishery within the 15-mile target distance limit.	(216,38,12 - 4)	1216.38.12.04	
Lowest Flore: Secondary Fisherine Score:		1	
< 10 cfs 210		1	
10 to 100 cfs 30	1		
> 100 cfs, coastal tidal waters, oceans, or Great Lakes	12		
	(300,310,30,12 a)	(21G.32.12 = w	┪ ──

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SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT SCORESHEET

				Consessed	14-0	
LIKELIHOOD OF RE	LEASE		_	Suspected Release	No Suspected Release	Reference:
Enter the Surface Wate	r Likelihood of Release	score from page 12.	LR =	550	.500.409.308 er 1409	
ENVIRONMENTAL	THREAT TARGETS					
11. Determine the wat sensitive environm and 5). If there are limit, assign a Targ page 17. Environment Name Netlands 12. PRIMARY SENSITI ment listed above in the sensitive environment is the sensitive environment environment is the sensitive environment environmen	er body types and flovents within the 15-mile no sensitive environmets score of 0 at the beauty of the body of the	vs (if applicable) for all surface we target distance limit (see PA Tanents within the 15-mile target distance of this page, and proceed water Body Type Fig.	cfs	1,200 - 0		
13. SECONDARY SENS A. For Secondary 100 cfs or less	SITIVE ENVIRONMENT	vironments:				
this factor:	Dilution Weight	Environment Type and Value (PA Tables 5 and 6)				
Tidal cis		Wetlands -	2.50			
cts		Wellards	2.50			
cfs				250		
cts						
cts		<u>.</u>	1			u.
	3	d -	Sum =			ut.
B. If NO Secondar		nts are located on surface water		[1000]	11 0 ar 48	·

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Date:

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SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

	A	8
WASTE CHARACTERISTICS	Suspected Release	No Suspected Release
14. A. If you have identified ANY Primary Targets for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	;:05 € 131	
B. If you have NOT identified any Primary Targets for surface water, assign the	(100,32, e-16)	,100.32. ar 104
waste characteristics score calculated on page 4.	32_	
wc =	32	

SURFACE WATER PATHWAY THREAT SCORES

Threat	Likelihood of Release (LR) Score (from page 12)	Targets (T) Score	Pathway Waste Cherecteristics (WC) Score (determined above)	Threet Score LR x T x WC / 82.500
Drinking Water	\$50	5	32_	1.07
Human Food Chain	550	12	32	2.56
Environmental	<i>550</i>	250	32	53.33

SURFACE WATER PATHWAY SCORE (Drinking Water Threat + Human Food Chain Threat + Environmental Threat) 56.96

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Site Name: Flower Oil

Date:

Delaware Valley Corp

PA TABLE 5: SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

ensitive Environment	Assigned Value
critical habitat for Federally designated endangered or threatened species	100
Anne Senctuary	
lational Park	
esignated Federal Wilderness Area	
cologically important areas identified under the Coastal Zone Wilderness Act	
ensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water Ac	t
critical Areas Identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire small lake	ee)
ational Monument	
lational Seashore Recreation Area	
lational Lakeshore Recreation Area	
labitat known to be used by Federally designated or proposed endangered or threatened species	75
lational Preserve	
lational or State Wildlife Refuge	
Init of Coastal Barner Resources System	
ederal land designated for the protection of natural ecosystems	
Administratively Proposed Federal Wildemess Area	
spawning areas critical for the maintenance of fish/shellfish species within a river system, bay or estuary	
vigratory pathways and feeding areas critical for the maintenance of anadromous fish species in a river system	•
Ferrestrial areas utilized by large or dense aggregations of vertebrate animals (semi-equatic foragers) for breeding	
Vational river reach designated as recreational	
Habitat known to be used by State designated endangered or threatened species	50
Habitat known to be used by a species under review as to its Federal endangered or threatened status	
Coastal Serrier (pertially developed)	
Federally designated Scenia or Wild River	
State land designated for wildlife or game menegament	25
State designated Scarie or Wild River	
State designated Natural Area	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	
Same services are the the protection improvement of accuming life under the Clean Weter Act	5
See PA Table 6 (Sur	face Water Pathway
Madanda (or
Wetlands PA Table 9	(Air Pathway)

PA TABLE 6: SURFACE WATER WETLANDS FRONTAGE VALUES

Total Length of Wetlends	Assigned Value
Less then 0.1 mile	. 0
0.1 to 1 mile	25
Greater then 1 to 2 miles	50
Greeter than 2 to 3 miles.	78
Greater than 3 to 4 miles	100
Greater then 4 to 8 miles	150
Greater than \$ to 12 miles	250
Greater than 12 to 16 miles	350
Greater than 16 to 20 miles	450
Greater than 20 miles	500

4.13

Ref. 4 66969

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Date:

te Name:	Flower Oil	l	
ete:	Delamare	Valley	Corp

NON 0

O VU	3 1390 SOIL EXPOSURE PATHWAY SCORESHEET			
	Pathway Characteristics			
	Do any people live on or within 200 ft of areas of suspected contamination?	Yes	No 🖌	
	Do any people attend school or day care on or within 200 ft of areas			
	of suspected contamination?	Yes	No	
	Is the facility active? Yes No If yes, estimate the number of wor	rkeus: 10		
		A	8	
		Suspected	No Suspected	
LIKELI	HOOD OF EXPOSURE		Contamination	References
		.360)		
	SPECTED CONTAMINATION: Surficial contamination is assumed.			
~ 30	core of 550 is assigned.	550	# #*	
RESID	ENT POPULATION THREAT TARGETS			•
2. RES	SIDENT POPULATION: Determine the number of people occupying residences.	İ	h.g.	
	Ittending school or day care on or within 200 feet of areas of suspected	1		
con	itamination (see Soil Exposure Pathway Criteria List, page 18).		- A. W	
	people x 10 =		T 1884	
2 000	SIDENT INDOMESTAL A 14 year hours identified and Besides Consider (Farmer 9)	150 to 01	1 12	!
	SIDENT INDIVIDUAL: If you have identified any Resident Population (Factor 2), ign a score of 50; otherwise, assign a score of 0.	0	*	
433	'भुग' व उद्युवस्य पर उप, प्रधा वा भावद, 2551911 व 3501व 01 प.	116, 10, 6, 4 4	350 · · · · · · · · · · · · · · · · · · ·	1 —
4. WC	PAKERS: Assign a score from the following table based on the total number of			
wo	rkers at the facility and nearby facilities with suspected contamination:	1		
	Alember of Werters Score Score	Ì		
	0 0	1		
	1 to 100 5			I
	101 to 1.000 10	5		ł
	> 1.000		S.200	
e TE	RRESTRIAL SENSITIVE ENVIRONMENTS: Assign a value from PA Table 7			ł
	each terrestrial sensitive environment that is located on an area of suspected	1		1
	ntamination:			Í
		1		
	Terrestrial Sensitive Environment Type Value		::::::::::::::::::::::::::::::::::::::	Į.
		Į.		
				İ
1				1
Ì	Sum •	(84	- 0.00 (a.c.)	
6. RE	SOURCES: A score of 5 is assigned.	5		1
			1000	4
	· · · · · · · · · · · · · · · · · · ·	. 10		
	Τ =	<u>' </u>	Singer.	
WAS	TE CHARACTERISTICS			
·		(100, 32, = 14)		1
7. A	ssign the waste characteristics score calculated on page 4- WC =	32		.
			200000000000000000000000000000000000000	-
		-	e appropriate de Hulli	7
RESI	DENT POPULATION THREAT SCORE: LE x T x WC			
	82.500	2	.13	1
		<u> </u>		_
NEA	RBY POPULATION THREAT SCORE:		2	
	n a score of 2		•	
-				-
` _ = -		Landaudia es	4	
SOIL	EXPOSURE PATHWAY SCORE:	$\boldsymbol{\mu}$	43	1

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02-9011-20 Site Name: Flower Oil

Ref. 4 -64 YE

Date:

30 VON_

U	V U 6 1990 AIR PATHWAY SCORESHEET	OCIA U A	se varies (.erp.
	Pathway Characteristics			ī
	Do you suspect a release (see Air Pathway Criteria List, page 21)? Distance to the nearest individual;	Ye	No /	
		A	8	I
LI	KELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Reference
1.	SUSPECTED RELEASE: If you suspect a release to air (see page 21), assign a score of 550, and use only column A for this pathway.	. 1500		
2.	NO SUSPECTED RELEASE: If you do not suspect a release to air, assign a score of 500, and use only column 8 for this pathway.		500	
T	LR =		500	
			l.	ľ
3.	PRIMARY TARGET POPULATION: Determine the number of people subject to exposure from a release of hazardous substances through the air (see Air Pathway Criteria List, page 21)			
4.	SECONDARY TARGET POPULATION: Determine the number of people within the 4-mile target distance limit, and assign the total population score from PA Table 8.		157	
5.	NEAREST INDIVIDUAL: If you have identified any Primary Targets for the air pathway, assign a score of 50; otherwise, assign the highest Nearest Individual score from PA Table 8.	196.30,7.2.1. ar (1)	20	
6.	PRIMARY SENSITIVE ENVIRONMENTS: Sum the sensitive environment values (PA Table 5) and wetland acreage values (PA Table 9) for environments subject to exposure from air hazardous substances (see Air Pathway Criteria List, page 21). Sensitive Environment Type Value			
	Sum =			
7.	SECONDARY SENSITIVE ENVIRONMENTS: Use PA Table 10 to determine the score for secondary sensitive environments.		0	
8.	RESOURCES: A score of 5 is assigned.	14 5	.u 5	·
	Τ-		182	
W	ASTE CHARACTERISTICS			
9.	A. If you have identified any Primary Targets for the air pathway, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	(16 0 31 <u>1</u>		•
	B. If you have NOT identified any Primary Targets for the air pathway, assign the waste characteristics score calculated on page 4.	(IGELEE, @ MA)	32	
	wc -		32	

AIR PATHWAY SCORE:

LR x T x WC 82,500

35.30

Site Name: Flowen Oil

Date: Delaware Valley Corp.

PA TABLE 8: VALUES FOR SECONDARY AIR TARGET POPULATIONS

	Mearest Ropulation Within Distance Category								Y						
Distance from Site	Population	Individual Ichpose Nighesti	; !?	11 40 30	31 40 100	101 10 300	301 40 1.000	1,001 to 1,000	2.001 (a 10.000	10,001 10 30,000	30,001 10 100,000	100,001 to 300,000	300,001 to 1,000.000	1,000,001 to 3,000,000	Population Value
Oneite		śo	•	2	6	16	62	163	521	1,633	5,214	16,325	52,136	163,246	
>0 to 14 mile	1700	®	1	1	1	4	13	0	130	408	1,303	4,081	13,034	40,811	41
> X to X mile	4600	2	٥	0	1	1	3	•	(3)	88	282	882	2,815	8,815	28
> K to 1 mile	23,400	1	0	0	. ø	1	1	3		(79)	83	261	834	2,612	26
> 1 to 2 miles	<u>64,800</u>	9	٥	0	0	0	1	1	3	8	1	83	266	833	27
>2 to 3 miles	91,100	0	٥	0	0	٥	1	1	1	4	@	38	120	376	12
>3 to 4 miles	238,700	0	0	0	0	0	0	1	1 1	2	,	@	73	229	2.3
Nearest Individual = 20 Score = 157							157								

PA TABLE 9: AIR PATHWAY VALUES FOR WETLAND AREA

	stoned Make
Lose than I acre	0
1 to 60 acres	25
Greater than 50 to 300 acres	76
Greater than 100 to 150 acres	125 •
Greater than 150 to 200 acres	176
Greater than 200 to 300 acres	250
Greeter then 300 to 400 acres	360
Greater than 400 to \$00 acres	450
Greater then 500 pcres	500

PA TABLE 10: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS

	Okt 1999	femiling Endporters Tyry and Yeling	Product
Onelte	0.10	1	4
		<u> </u>	
0-1/4 mi		1	1
	0.025	*	
		1	
/4·1/2mi		1	
	0.0054		
	,	×	·
		Total Environments Score	

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Ref 4 69 769

Site Name: Flower Oil Delaware Valley Corp. Date:

ITE SCORE CALCULATION

	S	S ²
GROUND WATER PATHWAY SCORE (S,_):	100	10.000
SURFACE WATER PATHWAY SCORE (S):	56.96	3244.44
SOIL EXPOSURE PATHWAY SCORE (S.):	4.13	17.06
AIR PATHWAY SCORE (S,):	35.30	1246.09
SITE SCORE:	$\sqrt{\frac{S_{gu}^{2} + S_{gu}^{2} + S_{gu}^{2} + S_{gu}^{2}}{4}} =$	60.22

REFERENCE NO. 5

EBASCO

MEMO

NEW JERSEY STATE DEPARTMENT OF E . IRONMENTAL PROTECTION

το	Keith Onsdorff, Assistant Director		lin - Fil
FROM	Susan Savoca	DATE	1/5/83
SUBJECT _	Flowen Oil Delaware Valley	\$	

On the morning of Monday, December 27, 1982 (at about 10:00 a.m.), "Al Pierce" of Flowen Oil (Camden County) called John Purves. In John's absence, I took the call. Mr. Pierce informed me that during the night of December 26, 1982 the facility had been broken into and property had been damaged; i.e. hoses were severed, sugar was put in vehicle gas tanks, valves had been opened. This occurred in spite of the presence of a 24 hour security guard. Mr. Pierce opined that it was a "professional job." Upon my inquiry, Mr. Pierce told me that the spillage had been contained in the facility's reservior and that it was now being cleaned up. According to Mr. Pierce, the police were informed of the occurrence. Mr. Pierce solicited DEP's assistance in finding the perpetrator but I informed him that this agency does not undertake police investigations.

I immediately transmitted the above information to Charles Krauss (DWM, Southern Field Office) and Dave Longstreet (DWM, Northern Field Office). (Note that Mr. Longstreet was contacted because Quanta's oil is being taken to Flowen). I requested Charles Krauss to send an inspector to investigate the matter (which he did).

At about 11:15 a.m. on December 27, 1982, Charlie Krauss telephoned me to advise me that an oil spill in the Cooper River over the weekend is being traced by the Coast Guard through the sewer system. The source appears to be the Flowen facility.

I advised Jerry Bruke of these events (in the absence of Keith Onsdorff and Mike Marotta) and telephoned the information to Joe Rogalski.

I then called Trenton Dispatch (2-7172). Franklin Nicoloudakis said he received a phone call on December 22, 1982 about an oil spill in Camden along the Admiral Wilson Blvd. near the bridge by the Merritt station. Spill was on the shore and in the Cooper River. John Bailey 541-9683, citizen, phoned the complaint and opined that it was No. 6 oil. No call was received by Trenton Dispatch regarding a spill at Flowen.